Computer Code for Freshwater Life Forms of Newfoundland:
Part 1 — Animals

P.M. Ryan

Fisheries Research Branch
Department of Fisheries and Oceans
P.O. Box 5667
St. John's, Newfoundland A1C 5X1

December 1983

Canadian Manuscript Report of
Fisheries and Aquatic Sciences
No. 1729

Canadian Manuscript Report of Fisheries and Aquatic Sciences

These reports contain scientific and technical information that represents an important contribution to existing knowledge but which for some reason may not be appropriate for primary scientific (i.e. *Journal*) publication. They differ from Technical Reports in terms of subject scope and potential audience: Manuscript Reports deal primarily with national or regional problems and distribution is generally restricted to institutions or individuals located in particular regions of Canada. No restriction is placed on subject matter and the series reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries management, technology and development, ocean sciences, and aquatic environments relevant to Canada.

Manuscript Reports may be cited as full publications. The correct citation appears above the abstract of each report. Each report will be abstracted by *Aquatic Sciences and Fisheries Abstracts* and will be indexed annually in the Department's index to scientific and technical publications.

Numbers 1-900 in this series were issued as Manuscript Reports (Biological Series) of the Biological Board of Canada, and subsequent to 1937 when the name of the Board was changed by Act of Parliament, as Manuscript Reports (Biological Series) of the Fisheries Research Board of Canada. Numbers 901-1425 were issued as Manuscript Reports of the Fisheries Research Board of Canada. Numbers 1426-1550 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Manuscript Reports. The current series name was changed with report number 1551.

Details on the availability of Manuscript Reports in hard copy may be obtained from the issuing establishment indicated on the front cover.

Rapport manuscrit canadien des sciences halieutiques et aquatiques

Ces rapports contiennent des renseignements scientifiques et techniques qui constituent une contribution importante aux connaissances actuelles mais qui, pour une raison ou pour une autre, ne semblent pas appropriés pour la publication dans un journal scientifique. Ils se distinguent des Rapports techniques par la portée du sujet et le lecteur visé; en effet, ils s'attachent principalement à des problèmes d'ordre national ou régional et la distribution en est généralement limitée aux organismes et aux personnes de régions particulières du Canada. Il n'y a aucune restriction quant au sujet; de fait, la série reflète la vaste gamme des intérêts et des politiques du Ministère des Pêches et des Océans, notamment gestion des pêches; techniques et développement, sciences océaniques et environnements aquatiques, au Canada.

Les Manuscrits peuvent être considérés comme des publications complètes. Le titre exact paraît au haut du résumé de chaque rapport, qui sera publié dans la revue *Aquatic Sciences and Fisheries Abstracts* et qui figuera dans l'index annuel des publications scientifiques et techniques du Ministère.

Les numéros de 1 à 900 de cette série ont été publiés à titre de manuscrits (Série biologique) de l'Office de biologie du Canada, et après le changement de la désignation de cet organisme par décret du Parlement, en 1937, ont été classés en tant que manuscrits (Série biologique) de l'Office des recherches sur les pêcheries du Canada. Les numéros allant de 901 à 1425 ont été publiés à titre de manuscrits de l'Office des recherches sur les pêcheries du Canada. Les numéros 1426 à 1550 ont été publiés à titre de Rapport manuscrits du Service des pêches et de la mer, Ministère des Pêches et de l'Environnement. Le nom de la série a été changé à partir du rapport numéro 1551.

La page couverture porte le nom de l'établissement auteur où l'on peut se procurer les rapports sous couverture cartonnée.

Canadian Manuscript Report of

Fisheries and Aquatic Sciences 1729

December 1983

COMPUTER CODE FOR FRESHWATER LIFE FORMS OF NEWFOUNDLAND: PART 1 - ANIMALS

(with miscellaneous codes for fish stomach content analyses)

by

P. M. Ryan

Fisheries Research Branch

Department of Fisheries and Oceans

P.O. Box 5667

St. John's, Newfoundland A1C 5X1

This is the eighth Manuscript Report from

Fisheries Research Branch, St. John's, Newfoundland.

PREFACE

This is Part 1 of two parts. The second part contains codes for plants.

(c)Minister of Supply and Services Canada 1983
Cat. No. Fs 97-4/1729 ISSN 0706-6473

Correct citation for this publication:

Ryan, P. M. 1983. Computer code for freshwater life forms of Newfoundland: Part 1 - Animals. Can. MS Rep. Fish. Aquat. Sci. 1729: iv + 159 p.

CONTENTS

Page

Preface ii
Abstract iv
Introduction 1
Materials and methods 1
  Protozoa to Bryozoa 2
  Gastropoda and Pelecypoda 2
  Annelida and Arachnoidea 2
  Crustacea 3
  Myriapoda 3
  Insecta 3
  Pisces 3
  Amphibia and Reptilia 3
  Aves 4
  Mammalia 4
  Miscellaneous codes applicable to fish stomach content analyses .. 4
Results and discussion 4
Acknowledgments 5
References 6
Appendix 1: Scientific names of animals based on the last two coded fields and corresponding codes ordered by code sequence 11
Appendix 2: List of taxa other than species and corresponding codes ordered alphabetically by taxa 41
Appendix 3: Systematically structured list of taxa and corresponding codes ordered by code sequence 57
  Protozoa to Bryozoa 57
  Gastropoda 66
  Pelecypoda 69
  Annelida and Arachnoidea 70
  Crustacea 72
  Myriapoda 81
  Insecta orders commonly found in aquatic habitats 82
  Insecta orders rare or typically found in terrestrial habitats ... 143
  Pisces 149
  Amphibia 155
  Reptilia 156
  Aves 157
  Mammalia 158
  Miscellaneous codes applicable to fish stomach content analyses .. 159

ABSTRACT

Ryan, P. M. 1983. Computer code for freshwater life forms of Newfoundland: Part 1 - Animals. Can. MS Rep. Fish. Aquat. Sci. 1729: iv + 159 p.

A systematically structured, ten-digit, computer code for use in the study of the freshwater animals of Newfoundland was created. The code consists of two digits in each of five fields, with each field corresponding to a taxonomic rank. One thousand, three hundred and forty animal taxa and 14 fish stomach content items were assigned codes. These animal taxa consist of: 34 classes, subclasses, or phyla; 70 orders or suborders; 183 families; 342 genera; and 711 species which have been or might be recorded during freshwater investigations in Newfoundland.

Key words: freshwater animals, Newfoundland, invertebrates, vertebrates, systematics, taxonomy, computer code, species code

RÉSUMÉ

Ryan, P. M. 1983. Computer code for freshwater life forms of Newfoundland: Part 1 - Animals. Can. MS Rep. Fish. Aquat. Sci. 1729: iv + 159 p.

On a créé un code informatique à dix chiffres systématiquement structuré pour l'étude des animaux d'eau douce de Terre-Neuve. Le code consiste en deux chiffres dans chacun des cinq domaines, chacun des domaines correspondant à un rang taxonomique. Des codes ont été assignés à 1 340 taxons d'animaux et à 14 éléments de contenus stomacaux de poisson. Ces taxons d'animaux comprennent: 34 classes, sous-classes ou embranchements; 70 ordres ou sous-ordres; 183 familles; 342 genres; et 711 espèces qui ont été ou pourraient être répertoriées au cours de recherches sur les eaux douces à Terre-Neuve.

Mots-clés: animaux d'eau douce, Terre-Neuve, invertébrés, vertébrés, systématique, taxonomie, code informatique, code d'espèce

INTRODUCTION

This publication presents a systematically structured, ten-digit, computer code for use in the study of the freshwater animals of Newfoundland. It is a companion to the plant code presented, under separate cover, as Part 2 (Ryan 1983). Its purpose is to facilitate the rapid handling and analyses of large amounts of data obtained during aquatic studies in the Province of Newfoundland by the Department of Fisheries and Oceans and other organizations or individuals.

Originally, a computer code was required to analyze large amounts of data collected from lakes and streams at the headwaters of the Northwest Gander River as part of a long-term study. Numerous computer codes for life forms had been developed but those existing codes examined were not considered acceptable for a variety of reasons. The present code was created to meet a number of criteria. The code had to: accommodate plants, animals, and fish stomach content items; have provision for the commonly used taxonomic groupings; allow for the easy sorting of data by taxonomic group; be practical for use with various levels of specimen identification; have a simple format to minimize coding errors; and have provision for extensive and rapid modification.

The code consists of two digits (00-99) in each of five fields with the identity of an animal to a given taxonomic group indicated by 01-99 in one or more of the five fields. This allows for the rapid sorting and analyses of data by taxonomic group and allows for a considerable addition of taxa without alteration of the systematic structure.

As the broad applicability of the code became apparent, the number of taxa assigned codes was increased with provision for: taxa from other areas of the province; taxa found outside the province; terrestrial taxa only occasionally found in water; and taxa found in the stomachs of fish. All animals found in or near the freshwaters of Newfoundland are not included in the report. However, codes are available for the inclusion of taxa as required. All taxa included in the listing may not, as yet, have been reported from Newfoundland. However, application of the code to data from outside the province is made easier by the inclusion of such taxa.

MATERIALS AND METHODS

The first field in the code for animals was used to identify the class, subclass, or phylum, the second field the order or suborder, and the third field the family. The fourth and fifth fields were used to identify the genus and species, respectively. Occasional departures from this format occurred for internal consistency when, for example, the second field was used to identify a subphylum or the third a superfamily. In the miscellaneous codes for stomach content analyses, the first field was used to specify a miscellaneous code and the second, a food item not listed elsewhere in the code (eg. stone or plankton).

Animals were assigned codes starting from the lower life forms (Protozoa) and ranging to the higher life forms (Mammalia). A systematically structured list of taxa with their corresponding codes was prepared with spacing and unassigned codes to allow for the addition, in each copy of the report, of taxa and appropriate codes by the user, as required.

A scientific name associated with each code was entered on computer files so that data could be retrieved with associated names rather than numbers. The scientific names consist of one or two parts based on the last two coded fields and occupy a maximum of 32 characters. If a taxon is specified by digits 01-99 only in the first field (eg. animal identified only to class), only the class, subclass, or phylum name is given. If an animal is identified beyond that level, the names corresponding to the last two fields occupied by digits 01-99 are produced. Thus, an animal identified to genus has retrievable family and genus names while one identified to species has retrievable genus and species names. The only exception to this occurs with the miscellaneous codes for stomach content analyses which occupy two fields but may be associated with one name.

As an aid to code users, all taxa, except species, were listed alphabetically with their associated codes. Thus, a user unfamiliar with order names but knowing the appropriate genus and species names could obtain most of the code for the species from the alphabetical listing of the genus and use that part of the code to obtain the full code and additional information on the taxonomic position from the systematic listing. The only exception to this occurs with the miscellaneous items for stomach content analyses which may be assigned two names in the alphabetical listing.

Systematic procedures and nomenclature were obtained from a variety of sources with modification for practical application of the code.

PROTOZOA TO BRYOZOA

These organisms, comprized of 14 classes, subclasses, or phyla, were, for the most part, given a loosely structured systematic breakdown as they have been only occasionally considered in fisheries investigations in the province and because of the variety of classification schemes in use. Systematic structuring and nomenclature were based primarily on Pennak (1978) with addition and modification from Edmondson (1959), Weisz (1966), Chengalath et al. (1971), and Ruttner-Kolisko (1974).

GASTROPODA AND PELECYPODA

Snails and clams were arranged to family according to Pennak (1978) with further breakdown from Clarke (1981).

ANNELIDA AND ARACHNOIDEA

Leeches, worms, spiders, and mites were arranged according to Pennak (1978) with further breakdown of the spiders following Weisz (1966).

CRUSTACEA

Crustaceans were structured after Pennak (1978) with Cladocera considered as an order of the subclass Branchiopoda and Amphipoda and Isopoda considered as orders of the subclass Malocostraca (Edmondson 1959).

MYRIAPODA

These animals were listed according to the summary of Scudder et al. (1979).

INSECTA

Order names followed Scudder et al. (1979) with the addition, for practical purposes, of the order Homoptera (Borror and White 1970). The classes Protura, Collembola, and Thysanura were considered as orders (Borror and White 1970). Further nomenclature for the orders Odonata, Ephemeroptera, Plecoptera, Hemiptera, Coleoptera, and Lepidoptera was based on Newfoundland species lists provided by Larson and Colbo (1983). The order Trichoptera was based on the Newfoundland species lists of Marshall and Larson (1982) and the order Diptera was based on Newfoundland species lists of M. H. Colbo and D. J. Larson (unpublished) summarized in Larson and Colbo (1983). Additional nomenclature was based on Weisz (1966), Borror and White (1970), Pennak (1978), and Gillot (1980).

Nomenclature for the taxonomically complicated order Hymenoptera was modified, for practical purposes, with some names provided by the author on the basis of superfamily names (eg. family Apoideae = bees) or life-history characteristics (eg. family Parasitica = parasitic wasps).

The order Odonata and its suborders Anisoptera and Zygoptera were assigned different codes in the second of the five fields. Thus, users having identified some animals as Odonata and other odonates to species must, when sorting, allow for this separation. It is expected that, in practice, the code for Odonata will be used only in the case of stomach content analysis.

As an aid to code users, insect orders rare in aquatic habitats or typically found in terrestrial habitats were grouped in a distinct section of the code, separate from those orders typically found in aquatic habitats.

PISCES

Fish names included were those listed by Scott and Crossman (1964) for insular Newfoundland and those reported by Scott and Crossman (1973) for Labrador. Systematic structure and nomenclature followed Bailey et al. (1970).

AMPHIBIA AND REPTILIA

A basis for the structuring of amphibians and reptiles was prepared from Weisz (1966) and Conant (1975).

AVES

Birds were included, for possible future breakdown, as the class Aves (Weisz 1966).

MAMMALIA

Mice, shrews, rats, and voles were listed as families after Burt and Grossenheider (1976).

MISCELLANEOUS CODES APPLICABLE TO FISH STOMACH CONTENT ANALYSES

These items were listed as they are potential stomach contents of fish not specified elsewhere. Codes for these items could be used to indicate incompletely described organisms (eg. molluscs, algae) from other types of studies.

Occasionally, codes were assigned to unknown but discrete species (eg. sp. 1, sp. 2, sp. 3, etc.) for the purposes of particular studies in progress during the compilation of this code. It was intended that this practice be avoided if possible but that codes assigned this way be considered occupied.

Occasionally, in the systematically structured listing of taxa, synonomous names were indicated. Only one of the synonyms was used in the list of scientific names based on the last two coded fields and the alphabetical listing of taxa.

RESULTS AND DISCUSSION

One thousand, three hundred and forty animal taxa were included in the code for animals, exclusive of 14 fish stomach content items. These taxa consist of: 34 classes, subclasses, or phyla; 70 orders or suborders; 183 families; 342 genera; and 711 species.

Duplication of species names occurred throughout the code (eg. *Anguilla rostrata*, *Limonia rostrata*, *Cyclops vernalis*, *Pedicia vernalis*, *Limonia terraenovae*, *Limnophila terraenovae*). No duplication of a genus name occurred among the animals listed. However, with both parts of the code (Part 1 - Animals, Part 2 - Plants) combined, one duplication of a genus name was encountered. *Holopedium* refers to *H. gibberum*, the zooplankter, and *H. irregulare*, the blue-green alga. No duplication of both genus and species names was encountered.

Animal taxa and their corresponding codes are presented in three arrangements in Appendices 1-3:

Appendix 1 - Scientific names of animals based on the last two coded fields and corresponding codes ordered by code sequence;

Appendix 2 - List of taxa other than species and corresponding codes ordered alphabetically by taxa; and, Appendix 3 - Systematically structured list of taxa and corresponding codes ordered by code sequence.

It is certain that changes to the code will be required as more organizations and individuals make use of it and as the techniques for classifying organisms are advanced. Suggested changes should be referred to the Head, freshwater investigations, Fisheries Research Branch, Northwest Atlantic Fisheries Centre, P.O. Box 5667, St. John's, Newfoundland, A1C 5X1. Appropriate changes will be entered in each of the master copies of Appendices 1, 2, and 3. These changes may be added to individual copies of the report by users until the publication of a second edition of the report is required.

ACKNOWLEDGMENTS

A large number of people contributed useful advice, helpful comment, and constructive criticism throughout the making of this code. The following individuals assisted in a major way.

P. Doyle and K. Harding typed the bulk of the manuscript and its numerous revisions.

A. Chaytor, G. Somerton, R. J. Tucker, and other staff of the Statistics and Computing Section, Northwest Atlantic Fisheries Centre, assisted with the computer storage and printing of taxonomic lists and codes and with the practical testing of the code by statistical analyses.

B. Bennett, M. H. Colbo, A. Dunphy, S. Freimanis, G. V. Hurley, D. J. Larson, and M. Larson assisted in the examination of the practical application of the code with their coding of large amounts of invertebrate data and resulting suggestions and comments.

S. Freimanis proofread numerous taxonomic lists and computer printouts during the development of the code.

W. J. Bruce, M. F. O'Connell, and D. A. Scruton provided lists of collected taxa for inclusion in the code.

M. H. Colbo and D. J. Larson provided frequent advice and encouragement and manuscript material on Newfoundland's insect fauna.

R. J. Tucker provided frequent invaluable advice on the development of the code for practical application.

M. H. Colbo, R. J. Gibson, M. F. O'Connell, and G. Somerton constructively reviewed the manuscript.

REFERENCES

Bailey, R. M., J. E. Fitch, E. S. Herald, E. A. Lachner, C. C. Lindsey, C. R. Robins, and W. B. Scott. 1970. A list of common and scientific names of fishes from the United States and Canada. 3rd ed. Amer. Fish. Soc. Spec. Publ. 6: 150 p.

Borror, D. J. and R. E. White. 1970. A field guide to the insects of America north of Mexico. Houghton Mifflin Co., Boston: 404 p.

Burt, W. H. and R. P. Grossenheider. 1976. A field guide to the mammals. 3rd ed. Houghton Mifflin Co., Boston: 289 p.

Chengalath, R., C. H. Fernando, and M. G. George. 1971. The planktonic rotifera of Ontario with keys to genera and species. Univ. Waterloo Biol. Ser. 2: 40 p.

Clarke, A. H. 1981. The freshwater molluscs of Canada. Nat. Mus. Nat. Sci. National Museums of Canada: 446 p.

Conant, R. 1975. A field guide to the reptiles and amphibians of eastern and central North America. 2nd ed. Houghton Mifflin Co., Boston: 429 p.

Edmondson, W. T. [ed.]. 1959. Freshwater biology. 2nd ed. John Wiley and Sons Inc., New York: 1248 p.

Gillot, C. 1980. Entomology. Plenum Press, New York: 729 p.

Larson, D. J. and M. H. Colbo. 1983. The aquatic insects: biogeographic considerations. p. 593-677. In: G. R. South (ed.). Biogeography and ecology of the island of Newfoundland. Dr. W. Junk, The Hague: 723 p.

Marshall, J. S. and D. J. Larson. 1982. The adult caddisflies (Insecta:Trichoptera) of insular Newfoundland. Memorial Univ. Nfld. Occas. Pap. Biol. 6: 85 p.

Pennak, R. W. 1978. Freshwater invertebrates of the United States. 2nd ed. John Wiley and Sons Inc., New York: 803 p.

Ruttner-Kolisko, A. 1974. Plankton rotifers, biology and taxonomy. Binnengewässer Suppl. 26(1): 146 p.

Ryan, P. M. 1983. Computer code for freshwater life forms of Newfoundland: Part 2 - Plants. Can. MS Rep. Fish. Aquat. Sci. 1729: iv+122 p.

Scott, W. B. and E. J. Crossman. 1964. Fishes occurring in the fresh waters of insular Newfoundland. Dep. Fish Ottawa: 124 p.

1973. Freshwater fishes of Canada. Bull. Fish. Res. Board Can. 184: xi+966 p.

Scudder, G. G. E., D. K. McE. Kevan, and E. L. Bousfield. 1979. Higher classification. p. 235-240. In: H. V. Danks (ed.). Canada and its insect fauna. Mem. Entomol. Soc. Can. 108: 573 p.

Weisz, P. B. 1966. The science of zoology. McGraw-Hill Book Co., New York: 875 p.

[illegible] 1973. Algae
classification. [illegible]. In: [illegible] (ed.). Lunda and its
[illegible]

[illegible] New York
[illegible]

[illegible]

[illegible]

[illegible]	[illegible]
PROTOZOA [illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
CILIOPHORA [illegible]	[illegible]
CILIOPHORA [illegible]	[illegible]
[illegible]	[illegible]
PROTOZOA [illegible]	[illegible]
ACTINOPHRYIDA ACTINOPHRYIDAE	[illegible]
ACTINOPHRYIDAE ACTINOPHRYS	[illegible]
PROTOZOA MASTIGOPHORA	[illegible]
MASTIGOPHORA [illegible]	[illegible]
[illegible]	[illegible]
PROTOZOA TESTACIDA	[illegible]
TESTACIDA DIFFLUGIIDAE	[illegible]
[illegible]	[illegible]
HYDROZOA	[illegible]
HYDROZOA HYDRIDAE	[illegible]
HYDRIDAE [illegible]	[illegible]
[illegible] HYDRA	[illegible]
TURBELLARIA	[illegible]
TURBELLARIA TRICLADIDA	[illegible]
TRICLADIDA PLANARIIDAE	[illegible]
PLANARIIDAE DUGESIA	[illegible]
[illegible]	[illegible]
NEMATODA	[illegible]
[illegible]	[illegible]
GASTROTRICHA	[illegible]
GASTROTRICHA CHAETONOTOIDEA	[illegible]
CHAETONOTOIDEA CHAETONOTIDAE	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

APPENDIX 1: SCIENTIFIC NAMES OF ANIMALS BASED ON THE LAST TWO CODED FIELDS AND CORRESPONDING CODES ORDERED BY CODE SEQUENCE

PROTOZOA	0100000000
PROTOZOA AMOEBIDA	0101000000
AMOEBIDA NAEGLERIIDAE	0101010000
AMOEBIDA AMOEBIDAE	0101020000
PROTOZOA CILIOPHORA	0102000000
CILIOPHORA PARAMECIIDAE	0102010000
PARAMECIIDAE PARAMECIUM	0102010100
CILIOPHORA TINTINNIDAE	0102020000
TINTINNIDAE TINTINNOPSIS	0102020100
CILIOPHORA VORTICELLIDAE	0102030000
VORTICELLIDAE ZOOTHAMNIUM	0102030100
CILIOPHORA EPISTYLIDAE	0102040000
CILIOPHORA ACINETIDAE	0102050000
ACINETIDAE THECACINETA	0102050100
PROTOZOA ACTINOPHRYDIA	0103000000
ACTINOPHRYDIA ACTINOPHRYIDAE	0103010000
ACTINOPHRYIDAE ACTINOPHRYS	0103010100
PROTOZOA MASTIGOPHORA	0104000000
MASTIGOPHORA AMPHIMONADIDAE	0104010000
AMPHIMONADIDAE CLADOMONAS	0104010100
PROTOZOA TESTICIDA	0105000000
TESTICIDA DIFFLUGIIDAE	0105010000
DEMOSPONGEA	0300000000
HYDROZOA	0500000000
HYDROZOA HYDROIDA	0501000000
HYDROIDA HYDRIDAE	0501010000
HYDRIDAE HYDRA	0501010100
TURBELLARIA	0700000000
TURBELLARIA TRICLADIDA	0705000000
TRICLADIDA PLANARIIDAE	0705010000
PLANARIIDAE DUGESIA	0705010100
CESTOIDEA	0900000000
TREMATODA	1100000000
NEMERTEA	1300000000
GASTROTRICHA	1500000000
GASTROTRICHA CHAETONOTOIDEA	1505000000
CHAETONOTOIDEA CHAETONOTIDAE	1505010000
ROTATORIA	1700000000
ROTATORIA BDELLOIDEA	1705000000
ROTATORIA PLOIMA	1706000000
PLOIMA BRACHIONIDAE	1706010000
BRACHIONIDAE BRACHIONUS	1706010100
BRACHIONUS QUADRIDENTATUS	1706010101
BRACHIONIDAE KELLICOTTIA	1706010200
KELLICOTTIA LONGISPINA	1706010201
KELLICOTTIA BOSTONIENSIS	1706010202
BRACHIONIDAE KERATELLA	1706010300
KERATELLA COCHLEARIS	1706010301
KERATELLA CRASSA	1706010302
KERATELLA TAUROCEPHALA	1706010303
KERATELLA SERRULATA	1706010304
KERATELLA EARLINAE	1706010305

KERATELLA QUADRATA	1706010306
BRACHIONIDAE LECANE	1706010400
LECANE LUNARIS	1706010401
LECANE CURVICORNIS	1706010402
LECANE BULLA	1706010403
LECANE LUNA	1706010404
BRACHIONIDAE TRICHOTRIA	1706010500
TRICHOTRIA TETRACTIS	1706010501
PLOIMA ASPLANCHNIDAE	1706020000
ASPLANCHNIDAE ASPLANCHNA	1706020100
ASPLANCHNA PRIODONTA	1706020101
PLOIMA SYNCHAETIDAE	1706030000
SYNCHAETIDAE BIPALPUS	1706030100
BIPALPUS HUDSONI	1706030101
SYNCHAETIDAE PLOESOMA	1706030200
PLOESOMA TRUNCATUM	1706030201
PLOESOMA LENTICULARE	1706030202
PLOESOMA HUDSONI	1706030203
SYNCHAETIDAE POLYARTHRA	1706030300
POLYARTHRA DOLICOPTERA	1706030301
POLYARTHRA MAJOR	1706030302
POLYARTHRA MINOR	1706030303
POLYARTHRA VULGARIS	1706030304
POLYARTHRA EURYPTERA	1706030305
SYNCHAETIDAE SYNCHAETA	1706030400
SYNCHAETA PECTINATA	1706030401
SYNCHAETA GRANDIS	1706030402
SYNCHAETA STYLATA	1706030403
PLOIMA GASTROPODIDAE	1706040000
GASTROPODIDAE GASTROPUS	1706040100
GASTROPUS STYLIFER	1706040101
PLOIMA EUCHLANIDAE	1706050000
EUCHLANIDAE EUCHLANIS	1706050100
EUCHLANIS DILATATA	1706050101
PLOIMA TRICHOCERCIDAE	1706060000
TRICHOCERCIDAE TRICHOCERCA	1706060100
TRICHOCERCA PLATESSA	1706060101
TRICHOCERCA CYLINDRICA	1706060102
TRICHOCERCA LONGISETA	1706060103
TRICHOCERCA CAPUCINA	1706060104
TRICHOCERCA MULTICRINIS	1706060105
ROTATORIA FLOSCULARIACEA	1707000000
FLOSCULARIACEA CONOCHILIDAE	1707010000
CONOCHILIDAE CONOCHILUS	1707010100
CONOCHILUS UNICORNIS	1707010101
ROTATORIA COLLOTHECACEA	1708000000
COLLOTHECACEA COLLOTHECIDAE	1708010000
COLLOTHECIDAE COLLOTHECA	1708010100
COLLOTHECA MUTABILIS	1708010101
NEMATODA	1900000000
NEMATOMORPHA	2000000000
NEMATOMORPHA GORDIOIDEA	2001000000

ACANTHOCEPHALA	2200000000
TARDIGRADA	2300000000
BRYOZOA	2600000000
GASTROPODA	3000000000
GASTROPODA MESOGASTROPODA	3001000000
MESOGASTROPODA AMPULLARIIDAE	3001010000
MESOGASTROPODA THIARIDAE	3001020000
MESOGASTROPODA BITHYNIIDAE	3001030000
MESOGASTROPODA HYDROBIIDAE	3001040000
HYDROBIIDAE AMNICOLA	3001040100
MESOGASTROPODA VIVIPARIDAE	3001050000
VIVIPARIDAE VIVIPARUS	3001050100
MESOGASTROPODA VALVATIDAE	3001060000
VALVATIDAE VALVATA	3001060100
MESOGASTROPODA PLEUROCERIDAE	3001070000
GASTROPODA ARCHAEOGASTROPODA	3002000000
ARCHAEOGASTROPODA NERTIDAE	3002010000
GASTROPODA BASOMMATOPHORA	3003000000
BASOMMATOPHORA PHYSIDAE	3003010000
PHYSIDAE PHYSA	3003010100
PHYSA HETEROSTROPHA	3003010101
BASOMMATOPHORA LYMNAEIDAE	3003020000
LYMNAEIDAE LYMNAEA	3003020100
LYMNAEIDAE STAGNICOLA	3003020200
BASOMMATOPHORA PLANORBIDAE	3003030000
PLANORBIDAE HELISOMA	3003030100
PLANORBIDAE GYRAULUS	3003030200
GYRAULUS DEFLECTUS	3003030201
BASOMMATOPHORA ACROLOXIDAE	3003040000
BASOMMATOPHORA LANCIDAE	3003050000
BASOMMATOPHORA ANCYLIDAE	3003060000
ANCYLIDAE FERRISSIA	3003060100
FERRISSIA PARALLELA	3003060101
PELECYPODA	3300000000
PELECYPODA EULAMELLIBRANCHIA	3301000000
EULAMELLIBRANCHIA UNIONIDAE	3301010000
PELECYPODA HETERODONTA	3302000000
HETERODONTA SPHAERIIDAE	3302010000
HIRUDINEA	3500000000
HIRUDINEA RHYNCHOBDELLIDA	3501000000
RHYNCHOBDELLIDA GLOSSIPHONIIDAE	3501010000
OLIGOCHAETA	3600000000
POLYCHAETA	3700000000
ARACHNOIDEA	3900000000
ARACHNOIDEA ARANEAE	3901000000
ARACHNOIDEA HYDRACARINA	3902000000
HYDRACARINA HYDRACHNIDAE	3902010000
HYDRACHNIDAE HYDRACHNA	3902010100
HYDRACARINA OXIDAE	3902020000
OXIDAE FRONTIPODA	3902020100
ARACHNOIDEA PHALANGIDA	3903000000
COPEPODA	4200000000

COPEPODA CALANOIDA	4201000000
CALANOIDA TEMORIDAE	4201010000
TEMORIDAE EPISCHURA	4201010100
EPISCHURA LACUSTRIS	4201010101
EPISCHURA NORDENSKIOLDI	4201010102
TEMORIDAE EURYTEMORA	4201010200
EURYTEMORA AFFINIS	4201010201
CALANOIDA DIAPTOMIDAE	4201020000
DIAPTOMIDAE DIAPTOMUS	4201020100
DIAPTOMUS MINUTUS	4201020101
DIAPTOMUS SPATULOCRENATUS	4201020102
COPEPODA CYCLOPOIDA	4202000000
CYCLOPOIDA CYCLOPIDAE	4202010000
CYCLOPIDAE CYCLOPS	4202010100
CYCLOPS VERNALIS	4202010101
CYCLOPS SCUTIFER	4202010102
CYCLOPIDAE EUCYCLOPS	4202010200
EUCYCLOPS AGILIS	4202010201
CYCLOPIDAE MESOCYCLOPS	4202010300
MESOCYCLOPS EDAX	4202010301
CYCLOPIDAE MACROCYCLOPS	4202010400
MACROCYCLOPS ALBIDUS	4202010401
CYCLOPIDAE TROPOCYCLOPS	4202010500
TROPOCYCLOPS PRASINUS	4202010501
CYCLOPOIDA ERGASILIDAE	4202020000
ERGASILIDAE ERGASILUS	4202020100
COPEPODA HARPACTICOIDA	4203000000
BRANCHIOPODA	4500000000
BRANCHIOPODA CLADOCERA	4501000000
CLADOCERA SIDIDAE	4501010000
SIDIDAE LATONA	4501010100
LATONA SETIFERA	4501010101
SIDIDAE SIDA	4501010200
SIDA CRYSTALLINA	4501010201
SIDIDAE DIAPHANOSOMA	4501010300
DIAPHANOSOMA BIRGEI	4501010301
CLADOCERA HOLOPEDIDAE	4501020000
HOLOPEDIDAE HOLOPEDIUM	4501020100
HOLOPEDIUM GIBBERUM	4501020101
CLADOCERA MACROTHRICIDAE	4501030000
MACROTHRICIDAE ACANTHOLEBERIS	4501030100
ACANTHOLEBERIS CURVIROSTRIS	4501030101
MACROTHRICIDAE ILYOCRYPTUS	4501030200
ILYOCRYPTUS SPINIFER	4501030201
MACROTHRICIDAE OPHRYOXUS	4501030300
OPHRYOXUS GRACILIS	4501030301
MACROTHRICIDAE STREBLOCERUS	4501030400
STREBLOCERUS SERRICAUDATUS	4501030401
MACROTHRICIDAE LATHONURA	4501030500
LATHONURA RECTIROSTRIS	4501030501
MACROTHRICIDAE PAROPHRYOXUS	4501030600
PAROPHRYOXUS TUBULATUS	4501030601

CLADOCERA DAPHNIDAE	4501040000
DAPHNIDAE CERIODAPHNIA	4501040100
CERIODAPHNIA LACUSTRIS	4501040101
CERIODAPHNIA RETICULATA	4501040102
DAPHNIDAE DAPHNIA	4501040200
DAPHNIA CATAWBA	4501040201
DAPHNIA DUBIA	4501040202
DAPHNIDAE SIMOCEPHALUS	4501040300
SIMOCEPHALUS EXSPINOSUS	4501040301
SIMOCEPHALUS SERRALUTUS	4501040302
SIMOCEPHALUS VETULUS	4501040303
CLADOCERA BOSMINIDAE	4501050000
BOSMINIDAE BOSMINA	4501050100
BOSMINA LONGIROSTRIS	4501050101
BOSMINIDAE EUBOSMINA	4501050200
EUBOSMINA LONGISPINA	4501050201
CLADOCERA LEPTODORIDAE	4501060000
LEPTODORIDAE LEPTODORA	4501060100
LEPTODORA KINDTI	4501060101
CLADOCERA POLYPHEMIDAE	4501070000
POLYPHEMIDAE POLYPHEMUS	4501070100
POLYPHEMUS PEDICULUS	4501070101
CLADOCERA CHYDORIDAE	4501080000
CHYDORIDAE ACROPERUS	4501080100
ACROPERUS HARPAE	4501080101
CHYDORIDAE ALONA	4501080200
ALONA AFFINIS	4501080201
ALONA COSTATA	4501080202
ALONA GUTTATA	4501080203
ALONA INTERMEDIA	4501080204
ALONA RUSTICA	4501080205
CHYDORIDAE ALONELLA	4501080300
ALONELLA EXISA	4501080301
ALONELLA NANA	4501080302
CHYDORIDAE ANCHISTROPUS	4501080400
ANCHISTROPUS MINOR	4501080401
CHYDORIDAE CHYDORUS	4501080500
CHYDORUS BICORNUTUS	4501080501
CHYDORUS BREVILABRIS	4501080502
CHYDORUS FAVIFORMIS	4501080503
CHYDORUS PIGER	4501080504
CHYDORUS SPHAERICUS	4501080505
CHYDORIDAE DISPARALONA	4501080600
DISPARALONA ACUTIROSTRIS	4501080601
CHYDORIDAE GRAPTOLEBERIS	4501080700
GRAPTOLEBERIS TESTUDINARIA	4501080701
CHYDORIDAE RHYNCHOTALONA	4501080800
RHYNCHOTALONA FALCATA	4501080801
CHYDORIDAE ALONOPSIS	4501080900
ALONOPSIS AMERICANA	4501080901
OSTRACODA	5000000000
OSTRACODA PODOCOPA	5001000000

MALOCOSTRACA	5500000000
MALOCOSTRACA ISOPODA	5501000000
MALOCOSTRACA AMPHIPODA	5502000000
AMPHIPODA TALITRIDAE	5502010000
TALITRIDAE HYALLELLA	5502010100
HYALLELLA AZTECA	5502010101
AMPHIPODA GAMMARIDAE	5502020000
GAMMARIDAE CRANGONYX	5502020100
CHILOPODA	5600000000
CHILOPODA LITHOBIOMORPHA	5601000000
SYMPHYLA	5700000000
DIPLOPODA	5800000000
PAUROPODA	5900000000
INSECTA	6000000000
INSECTA EPHEMEROPTERA	6001000000
EPHEMEROPTERA SIPHLONURIDAE	6001010000
SIPHLONURIDAE AMELETUS	6001010100
SIPHLONURIDAE SIPHLONURUS	6001010200
SIPHLONURUS ALTERNATUS	6001010201
SIPHLONURUS QUEBECENSIS	6001010202
EPHEMEROPTERA BAETIDAE	6001020000
BAETIDAE BAETIS	6001020100
BAETIS FLAVISTRIGA	6001020101
BAETIS MACDUNNOUGHI	6001020102
BAETIS PYGMAEUS	6001020103
BAETIS TRICAUDATUS	6001020104
BAETIDAE CALLIBAETIS	6001020200
CALLIBAETIS SKOKIANUS	6001020201
BAETIDAE CENTROPTILUM	6001020300
CENTROPTILUM CONVEXUM	6001020301
EPHEMEROPTERA HEPTAGENIIDAE	6001030000
HEPTAGENIIDAE EPEORUS	6001030100
EPEORUS PLEURALIS	6001030101
HEPTAGENIIDAE HEPTAGENIA	6001030200
HEPTAGENIA PULLA	6001030201
HEPTAGENIA HEBE	6001030202
HEPTAGENIIDAE RHITHROGENA	6001030300
RHITHROGENA UNDULATA	6001030301
HEPTAGENIIDAE STENONEMA	6001030400
STENONEMA FEMORATUM	6001030401
STENONEMA VICARIUM	6001030402
EPHEMEROPTERA LEPTOPHLEBIIDAE	6001040000
LEPTOPHLEBIIDAE HABROPHLEBIA	6001040100
HABROPHLEBIA VIBRANS	6001040101
LEPTOPHLEBIIDAE LEPTOPHLEBIA	6001040200
LEPTOPHLEBIA CUPIDA	6001040201
LEPTOPHLEBIIDAE PARALEPTOPHLEBIA	6001040300
PARALEPTOPHLEBIA ADOPTIVA	6001040301
PARALEPTOPHLEBIA DEBILIS	6001040302
EPHEMEROPTERA EPHEMERELLIDAE	6001050000
EPHEMERELLIDAE DRUNELLA	6001050100
DRUNELLA CORNUTA	6001050101

EPHEMERELLIDAE EPHEMERELLA	6001050200
EPHEMERELLA AURIVILLII	6001050201
EPHEMERELLA SUBVARIA	6001050202
EPHEMERELLIDAE EURYLOPHELLA	6001050300
EURYLOPHELLA FUNERALIS	6001050301
EURYLOPHELLA PRUDENTALIS	6001050302
EPHEMEROPTERA TRICORYTHIDAE	6001060000
TRICORYTHIDAE TRICORYTHODES	6001060100
TRICORYTHODES ATRATUS	6001060101
EPHEMEROPTERA CAENIDAE	6001070000
CAENIDAE CAENIS	6001070100
CAENIS SIMULANS	6001070101
EPHEMEROPTERA EPHEMERIDAE	6001080000
EPHEMERIDAE HEXAGENIA	6001080100
HEXAGENIA LIMBATA	6001080101
HEXAGENIA RIGIDA	6001080102
INSECTA ODONATA	6002000000
INSECTA ZYGOPTERA	6003000000
ZYGOPTERA CALOPTERYGIDAE	6003010000
CALOPTERYGIDAE CALOPTERYX	6003010100
CALOPTERYX AEQUABILIS	6003010101
ZYGOPTERA LESTIDAE	6003020000
LESTIDAE LESTES	6003020100
LESTES DISJUNCTUS	6003020101
ZYGOPTERA COENAGRIIDAE	6003030000
COENAGRIIDAE NEHALENNIA	6003030100
NEHALENNIA IRENE	6003030101
COENAGRIIDAE COENAGRION	6003030200
COENAGRION RESOLUTUM	6003030201
COENAGRION INTERROGATUM	6003030202
COENAGRIIDAE ENALLAGMA	6003030300
ENALLAGMA BOREALE	6003030301
ENALLAGMA CIVILE	6003030302
ENALLAGMA CYATHIGERUM	6003030303
ENALLAGMA EBRIUM	6003030304
COENAGRIIDAE ISCHNURA	6003030400
ISCHNURA POSITA	6003030401
ISCHNURA VERTICALIS	6003030402
INSECTA ANISOPTERA	6004000000
ANISOPTERA AESHNIDAE	6004010000
AESHNIDAE AESHNA	6004010100
AESHNA CANADENSIS	6004010101
AESHNA EREMITA	6004010102
AESHNA INTERRUPTA	6004010103
AESHNA JUNCEA	6004010104
AESHNA SEPTENTRIONALIS	6004010105
AESHNA SITCHENSIS	6004010106
AESHNA SUBARCTICA	6004010107
AESHNA UMBROSA	6004010108
ANISOPTERA GOMPHIDAE	6004020000
GOMPHIDAE OPHIOGOMPHUS	6004020100
OPHIOGOMPHUS COLUBRINUS	6004020101

ANISOPTERA CORDULIIDAE	6004030000
CORDULIIDAE CORDULIA	6004030100
CORDULIA SHURTLEFFI	6004030101
CORDULIIDAE SOMATOCHLORA	6004030200
SOMATOCHLORA ALBICINCTA	6004030201
SOMATOCHLORA CINGULATA	6004030202
SOMATOCHLORA FORCIPATA	6004030203
SOMATOCHLORA FRANKLINI	6004030204
SOMATOCHLORA SEPTENTRIONALIS	6004030205
SOMATOCHLORA WALSHII	6004030206
ANISOPTERA LIBELLULIDAE	6004040000
LIBELLULIDAE LEUCORRHINIA	6004040100
LEUCORRHINIA GLACIALIS	6004040101
LEUCORRHINIA HUDSONICA	6004040102
LEUCORRHINIA PROXIMA	6004040103
LIBELLULIDAE LIBELLULA	6004040200
LIBELLULA QUADRIMACULATA	6004040201
LIBELLULIDAE PANTALA	6004040300
PANTALA FLAVESCENS	6004040301
LIBELLULIDAE SYMPETRUM	6004040400
SYMPETRUM COSTIFERUM	6004040401
SYMPETRUM DANAE	6004040402
SYMPETRUM INTERNUM	6004040403
INSECTA PLECOPTERA	6005000000
PLECOPTERA LEUCTRIDAE	6005010000
LEUCTRIDAE LEUCTRA	6005010100
LEUCTRA FERRUGINEA	6005010101
LEUCTRA TRUNCATA	6005010102
PLECOPTERA CAPNIIDAE	6005020000
CAPNIIDAE ALLOCAPNIA	6005020100
ALLOCAPNIA MINIMA	6005020101
CAPNIIDAE PARACAPNIA	6005020200
PARACAPNIA ANGULATA	6005020201
PARACAPNIA OPIS	6005020202
PLECOPTERA NEMOURIDAE	6005030000
NEMOURIDAE NEMOURA	6005030100
NEMOURA MACDUNNOUGHI	6005030101
PLECOPTERA CHLOROPERLIDAE	6005040000
CHLOROPERLIDAE ALLOPERLA	6005040100
ALLOPERLA CAUDATA	6005040101
ALLOPERLA CONCOLOR	6005040102
ALLOPERLA NAICA	6005040103
PLECOPTERA PERLIDAE	6005050000
PERLIDAE ACRONEURIA	6005050100
ACRONEURIA ABNORMIS	6005050101
PLECOPTERA PERLODIDAE	6005060000
PERLODIDAE ISOGENUS	6005060100
ISOGENUS FRONTALIS	6005060101
PERLODIDAE ISOPERLA	6005060200
ISOPERLA BILINEATA	6005060201
ISOPERLA TRANSMARINA	6005060202
PLECOPTERA TAENIOPTERYGIDAE	6005070000

INSECTA HEMIPTERA	6006000000
HEMIPTERA CORIXIDAE	6006010000
CORIXIDAE ARCTOCORISA	6006010100
ARCTOCORISA CONVEXA	6006010101
ARCTOCORISA CHANCEAE	6006010102
ARCTOCORISA PLANIFRONS	6006010103
CORIXIDAE CALLICORIXA	6006010200
CALLICORIXA AUDENI	6006010201
CALLICORIXA ALASKENSIS	6006010202
CORIXIDAE DASYCORIXA	6006010300
CORIXIDAE GLAENOCORISA	6006010400
GLAENOCORISA QUADRATA	6006010401
CORIXIDAE HESPEROCORIXA	6006010500
HESPEROCORIXA MINORELLA	6006010501
HESPEROCORIXA ATOPODONATA	6006010502
CORIXIDAE PALMOCORIXA	6006010600
PALMOCORIXA BUENOI	6006010601
CORIXIDAE SIGARA	6006010700
SIGARA COMPRESSOIDEA	6006010701
SIGARA CONOCEPHALA	6006010702
SIGARA DECORATELLA	6006010703
SIGARA DOLABRA	6006010704
SIGARA MACROPALA	6006010705
SIGARA MATHESONI	6006010706
SIGARA PENNIENSIS	6006010707
SIGARA SIGNATA	6006010708
SIGARA TRILINEATA	6006010709
CORIXIDAE TRICHOCORIXA	6006010800
TRICHOCORIXA SEXCINCTA	6006010801
TRICHOCORIXA VERTICALIS	6006010802
HEMIPTERA NOTONECTIDAE	6006020000
NOTONECTIDAE NOTONECTA	6006020100
NOTONECTA INSULATA	6006020101
NOTONECTA UNDULATA	6006020102
HEMIPTERA BELOSTOMATIDAE	6006030000
BELOSTOMATIDAE LETHOCERUS	6006030100
LETHOCERUS AMERICANUS	6006030101
HEMIPTERA MESOVELIIDAE	6006040000
MESOVELIIDAE MESOVELIA	6006040100
MESOVELIA MULSANTI	6006040101
HEMIPTERA VELIIDAE	6006050000
VELIIDAE MICROVELIA	6006050100
MICROVELIA BUENOI	6006050101
MICROVELIA PULCHELLA	6006050102
HEMIPTERA GERRIDAE	6006060000
GERRIDAE GERRIS	6006060100
GERRIS BUENOI	6006060101
GERRIS COMATUS	6006060102
GERRIS DISSORTIS	6006060103
GERRIS NYCTALIS	6006060104
GERRIS REMIGIS	6006060105
HEMIPTERA SALDIDAE	6006070000

SALDIDAE PENTACORA	6006070100
PENTACORA SPHACELATA	6006070101
PENTACORA LIGATA	6006070102
SALDIDAE SALDA	6006070200
SALDA PROVANCHERI	6006070201
SALDA CRASSICORNIS	6006070202
SALDA BUENOI	6006070203
SALDA LUGUBRIS	6006070204
SALDA OBSCURA	6006070205
SALDIDAE SALDULA	6006070300
SALDULA NIGRITA	6006070301
SALDULA OPACULA	6006070302
SALDULA ORBICULATA	6006070303
SALDULA PALLIPES-PALUSTRIS	6006070304
SALDULA SALTATORIA	6006070305
SALDULA SEPARATA	6006070306
HEMIPTERA REDUVIIDAE	6006080000
HEMIPTERA MIRIDAE	6006090000
INSECTA NEUROPTERA	6007000000
NEUROPTERA SISYRIDAE	6007010000
SISYRIDAE CLIMACIA	6007010100
NEUROPTERA HEMEROBIIDAE	6007020000
INSECTA COLEOPTERA	6008000000
COLEOPTERA HALIPLIDAE	6008010000
HALIPLIDAE HALIPLUS	6008010100
HALIPLUS IMMACULICOLLIS	6008010101
HALIPLUS CRIBRARIUS	6008010102
HALIPLUS SUBGUTTATUS	6008010103
COLEOPTERA DYTISCIDAE	6008020000
DYTISCIDAE LIODESSUS	6008020100
LIODESSUS AFFINIS	6008020101
DYTISCIDAE HYGROTUS	6008020200
HYGROTUS SAYI	6008020201
HYGROTUS CANADENSIS	6008020202
HYGROTUS SUTURALIS	6008020203
HYGROTUS QUEBECENSIS	6008020204
HYGROTUS PICATUS	6008020205
HYGROTUS IMPRESSOPUNCTATUS	6008020206
HYGROTUS UNGUICULARIS	6008020207
DYTISCIDAE OREODYTES	6008020300
OREODYTES SCITULUS	6008020301
OREODYTES LAEVIS	6008020302
DYTISCIDAE DERONECTES	6008020400
DERONECTES ELEGANS	6008020401
DERONECTES GRISEOSTRIATUS	6008020402
DYTISCIDAE HYDROPORUS	6008020500
HYDROPORUS CAROLINUS	6008020501
HYDROPORUS PULCHER	6008020502
HYDROPORUS UNDULATUS	6008020503
HYDROPORUS SOLITARIUS	6008020504
HYDROPORUS PAUGUS	6008020505
HYDROPORUS ACADIANUS	6008020506

HYDROPORUS AEQUUS	6008020507
HYDROPORUS RUBYI	6008020508
HYDROPORUS BREVICORNIS	6008020509
HYDROPORUS NOTABILIS	6008020510
HYDROPORUS NIGER	6008020511
HYDROPORUS SIGNATUS	6008020512
HYDROPORUS TRISTIS	6008020513
HYDROPORUS STRIOLA	6008020514
HYDROPORUS BADIELLUS	6008020515
HYDROPORUS CRINITICOXIS	6008020516
HYDROPORUS RECTUS	6008020517
HYDROPORUS MORIO	6008020518
HYDROPORUS DESPECTUS	6008020519
DYTISCIDAE AGABUS	6008020600
AGABUS SERIATUS	6008020601
AGABUS KENAIENSIS	6008020602
AGABUS SHARPI	6008020603
AGABUS SEMIPUNCTATUS	6008020604
AGABUS ARCTICUS	6008020605
AGABUS PUNCTULATUS	6008020606
AGABUS ANTHRACINUS	6008020607
AGABUS AMBIGUUS	6008020608
AGABUS LEPTAPSIS	6008020609
AGABUS INFUSCATUS	6008020610
AGABUS CONFINUS	6008020611
AGABUS ERICHSONI	6008020612
AGABUS PHAEOPTERUS	6008020613
AGABUS CONGENER	6008020614
DYTISCIDAE ILYBIUS	6008020700
ILYBIUS ANGUSTIOR	6008020701
ILYBIUS DISCEDENS	6008020702
ILYBIUS PLEURITICUS	6008020703
ILYBIUS BIGUTTULUS	6008020704
ILYBIUS SUBAENEUS	6008020705
DYTISCIDAE COPELATUS	6008020800
COPELATUS GLYPHICUS	6008020801
DYTISCIDAE RHANTUS	6008020900
RHANTUS BINOTATUS	6008020901
RHANTUS WALLISI	6008020902
RHANTUS SUTURELLUS	6008020903
DYTISCIDAE COLYMBETES	6008021000
COLYMBETES PAYKULLI	6008021001
COLYMBETES DOLOBRATUS	6008021002
DYTISCIDAE NEOSCUTOPTERUS	6008021100
NEOSCUTOPTERUS ANGUSTUS	6008021101
DYTISCIDAE GRAPHODERUS	6008021200
GRAPHODERUS LIBERUS	6008021201
GRAPHODERUS PERPLEXUS	6008021202
DYTISCIDAE ACILIUS	6008021300
ACILIUS SEMISULCATUS	6008021301
ACILIUS FRATERNUS	6008021302
DYTISCIDAE DYTISCUS	6008021400

DYTISCUS HARRISII	6008021401
DYTISCUS DAURICUS	6008021402
DYTISCUS ALASKANUS	6008021403
COLEOPTERA GYRINIDAE	6008030000
GYRINIDAE GYRINUS	6008030100
GYRINUS AFFINUS	6008030101
GYRINUS AQUIRUS	6008030102
GYRINUS BIFARIUS	6008030103
GYRINUS CONFINUS	6008030104
GYRINUS DUBIUS	6008030105
GYRINUS LATILIMBUS	6008030106
GYRINUS SAYI	6008030107
GYRINUS MINUTUS	6008030108
GYRINUS OPACUS	6008030109
COLEOPTERA HYDROPHILIDAE	6008040000
HYDROPHILIDAE HELOPHORUS	6008040100
HELOPHORUS LINEATUS	6008040101
HELOPHORUS SP. I	6008040102
HELOPHORUS SP. II	6008040103
HELOPHORUS SP. III	6008040104
HYDROPHILIDAE LACCOBIUS	6008040200
LACCOBIUS AGILIS	6008040201
LACCOBIUS REFLEXIPENNIS	6008040202
LACCOBIUS SPANGLERI	6008040203
LACCOBIUS SP. I	6008040204
HYDROPHILIDAE PARACYMUS	6008040300
PARACYMUS SUBCUPREUS	6008040301
HYDROPHILIDAE CRENITIS	6008040400
CRENITIS MORATA	6008040401
HYDROPHILIDAE ANACAENA	6008040500
ANACAENA LIMBATA	6008040501
HYDROPHILIDAE ENOCHRUS	6008040600
ENOCHRUS HAMILTONI	6008040601
ENOCHRUS OCHRACEUS	6008040602
HYDROPHILIDAE CYMBIODYTA	6008040700
CYMBIODYTA VINDICATA	6008040701
HYDROPHILIDAE HYDROBIUS	6008040800
HYDROBIUS FUSCIPES	6008040801
COLEOPTERA HELODIDAE	6008050000
HELODIDAE HELODES	6008050100
HELODES MACULICOLLIS	6008050101
HELODIDAE CYPHON	6008050200
CYPHON MODESTUS	6008050201
CYPHON OBSCURUS	6008050202
CYPHON PADI	6008050203
CYPHON VARIABILIS	6008050204
CYPHON SP.I	6008050205
CYPHON SP. II	6008050206
CYPHON SP. III	6008050207
COLEOPTERA ELMIDAE	6008060000
ELMIDAE OULIMNIUS	6008060100
OULIMNIUS LATIUSCULUS	6008060101

ELMIDAE PROMORESIA	6008050200
PROMORESIA TARDELLA	6008060201
ELMIDAE STENELMIS	6008060300
STENELMIS CRENATA	6008060301
COLEOPTERA CHRYSOMELIDAE	6008070000
CHRYSOMELIDAE DONACIA	6008070100
DONACIA PROXIMA	6008070101
DONACIA HIRTICOLLIS	6008070102
DONACIA PUSILLA	6008070103
DONACIA EMARGINATA	6008070104
DONACIA FULVIPES	6008070105
DONACIA GERMARI	6008070106
CHRYSOMELIDAE GALERUCELLA	6008070200
GALERUCELLA NYMPHAEAE	6008070201
COLEOPTERA ELATERIDAE	6008080000
COLEOPTERA CURCULIONIDAE	6008090000
COLEOPTERA STAPHYLINIDAE	6008100000
COLEOPTERA LATHRIDIIDAE	6008110000
COLEOPTERA DRYOPODIDAE	6008120000
COLEOPTERA CANTHARIDAE	6008130000
COLEOPTERA SCOLYTIDAE	6008140000
COLEOPTERA CRYPTOPHAGIDAE	6008150000
COLEOPTERA CARABIDAE	6008160000
COLEOPTERA DERMESTIDAE	6008170000
DERMESTIDAE DERMESTES	6008170100
INSECTA TRICHOPTERA	6009000000
TRICHOPTERA RHYACOPHILIDAE	6009010000
RHYACOPHILIDAE RHYACOPHILA	6009010100
RHYACOPHILA ACROPEDES	6009010101
RHYACOPHILA VIBOX	6009010102
RHYACOPHILA FUSCULA	6009010103
RHYACOPHILA INVARIA	6009010104
RHYACOPHILA CARPENTERI	6009010105
RHYACOPHILA NIGRITA	6009010106
RHYACOPHILA CAROLINA	6009010107
RHYACOPHILA MELITA	6009010108
RHYACOPHILA MINORA	6009010109
RHYACOPHILA TORVA	6009010110
TRICHOPTERA GLOSSOSOMATIDAE	6009020000
GLOSSOSOMATIDAE GLOSSOSOMA	6009020100
GLOSSOSOMA NIGRIOR	6009020101
GLOSSOSOMA INTERMEDIUM	6009020102
TRICHOPTERA PHILOPOTAMIDAE	6009030000
PHILOPOTAMIDAE DOLOPHILODES	6009030100
DOLOPHILODES DISTINCTUS	6009030101
PHILOPOTOMIDAE CHIMARRA	6009030200
CHIMARRA ATERRIMA	6009030201
CHIMARRA SOCIA	6009030202
CHIMARRA OBSCURA	6009030203
PHILOPOTAMIDAE WORMALDIA	6009030300
WORMALDIA MOESTA	6009030301
TRICHOPTERA POLYCENTROPODIDAE	6009040000

POLYCENTROPODIDAE NEURECLIPSIS	6009040100
NEURECLIPSIS BINACULATA	6009040101
NEURECLIPSIS CREPUSCULARIS	6009040102
POLYCENTROPODIDAE NYCTIOPHYLAX	6009040200
NYCTIOPHYLAX AFFINIS	6009040201
POLYCENTROPODIDAE POLYCENTROPUS	6009040300
POLYCENTROPUS AUREOLUS	6009040301
POLYCENTROPUS WEEDI	6009040302
POLYCENTROPUS CONFUSUS	6009040303
POLYCENTROPUS CENTRALIS	6009040304
POLYCENTROPUS MACULATUS	6009040305
POLYCENTROPUS BLICKLEI	6009040306
POLYCENTROPUS INTERRUPTUS	6009040307
POLYCENTROPUS FLAVUS	6009040308
POLYCENTROPUS REMOTUS	6009040309
POLYCENTROPUS CINEREUS	6009040310
TRICHOPTERA HYDROPSYCHIDAE	6009050000
HYDROPSYCHIDAE ARCTOPSYCHE	6009050100
ARCTOPSYCHE LADOGENSIS	6009050101
HYDROPSYCHIDAE PARAPSYCHE	6009050200
PARAPSYCHE APICALIS	6009050201
HYDROPSYCHIDAE HYDROPSYCHE	6009050300
HYDROPSYCHE BETTENI	6009050301
HYDROPSYCHE SPARNA	6009050302
HYDROPSYCHE RECURVATA	6009050303
HYDROPSYCHE SLOSSONAE	6009050304
HYDROPSYCHIDAE CHEUMATOPSYCHE	6009050400
CHEUMATOPSYCHE PETTITI	6009050401
HYDROPSYCHIDAE DIPLECTRONA	6009050500
DIPLECTRONA MODESTA	6009050502
TRICHOPTERA HYDROPTILIDAE	6009060000
HYDROPTILIDAE HYDROPTILA	6009060100
HYDROPTILA METOECA	6009060101
HYDROPTILIDAE OXYETHIRA	6009060200
OXYETHIRA SIDA	6009060201
OXYETHIRA OBTATUS	6009060202
HYDROPTILIDAE AGRAYLEA	6009060300
TRICHOPTERA PSYCHOMYIIDAE	6009070000
TRICHOPTERA PHRYGANEIDAE	6009080000
PHRYGANEIDAE PTILOSTOMIS	6009080100
PTILOSTOMIS SEMIFASCIATA	6009080101
PTILOSTOMIS OCELLIFERA	6009080102
PHRYGANEIDAE PHRYGANEA	6009080200
PHRYGANEA CINEREA	6009080201
PHRYGANEIDAE OLIGOSTOMIS	6009080300
OLIGOSTOMIS OCELLIGERA	6009080301
OLIGOSTOMIS PARDALIS	6009080302
PHRYGANEIDAE AGRYPNIA	6009080400
AGRYPNIA VESTITA	6009080401
AGRYPNIA DEFLATA	6009080402
AGRYPNIA IMPROBA	6009080403
AGRYPNIA MACDUNNOUGHI	6009080404

AGRYPNIA COLORATA	6009080405
AGRYPNIA GLACIALIS	6009080406
PHRYGANEIDAE BANKSIOLA	6009080500
BANKSIOLA DOSSUARIA	6009080501
BANKSIOLA SMITHI	6009080502
BANKSIOLA CROTCHI	6009080503
PHRYGANEIDAE FABRIA	6009080600
FABRIA COMPLICATA	6009080601
TRICHOPTERA LIMNEPHILIDAE	6009090000
LIMNEPHILIDAE APATANIA	6009090100
APATANIA NIGRA	6009090101
APATANIA STIGMATELLA	6009090102
LIMNEPHILIDAE NEOPHYLAX	6009090200
NEOPHYLAX NACATUS	6009090201
NEOPHYLAX ORNATUS	6009090202
NEOPHYLAX OLIGIUS	6009090203
NEOPHYLAX ANIQUA	6009090204
LIMNEPHILIDAE PSEUDOSTENOPHYLAX	6009090300
PSEUDOSTENOPHYLAX SPARSUS	6009090301
LIMNEPHILIDAE ONOCOSMOECUS	6009090400
ONOCOSMOECUS QUADRINOTATUS	6009090401
LIMNEPHILIDAE PLATYCENTROPUS	6009090500
PLATYCENTROPUS INDISTINCTUS	6009090501
PLATYCENTROPUS RADIATUS	6009090502
LIMNEPHILIDAE NEMOTAULIUS	6009090600
NEMOTAULIUS HOSTILIS	6009090601
LIMNEPHILIDAE HESPEROPHYLAX	6009090700
HESPEROPHYLAX DESIGNATUS	6009090701
LIMNEPHILIDAE ARCTOPORA	6009090800
ARCTOPORA PULCHELLA	6009090801
LIMNEPHILIDAE LENARCHUS	6009090900
LENARCHUS CRASSUS	6009090901
LIMNEPHILIDAE ASYNARCHUS	6009091000
ASYNARCHUS CURTIS	6009091001
LIMNEPHILIDAE LIMNEPHILUS	6009091100
LIMNEPHILUS HYALINUS	6009091101
LIMNEPHILUS SUBLUNATUS	6009091102
LIMNEPHILUS EXTERNUS	6009091103
LIMNEPHILUS INDIVISUS	6009091104
LIMNEPHILUS SERICEUS	6009091105
LIMNEPHILUS PEROUSILLUS	6009091106
LIMNEPHILUS ARGENTEUS	6009091107
LIMNEPHILUS FEMORALIS	6009091108
LIMNEPHILUS RHOMBICUS	6009091109
LIMNEPHILUS MOESTUS	6009091110
LIMNEPHILUS ORNATUS	6009091111
LIMNEPHILUS KENNICOTTI	6009091112
LIMNEPHILUS ADEMUS	6009091113
LIMNEPHILUS SUBMONILIFER	6009091114
LIMNEPHILUS MINISCULUS	6009091115
LIMNEPHILIDAE ANOBOLIA	6009091200
ANOBOLIA SORDIDA	6009091201

ANOBOLIA BIMACULATA	6009091202
LIMNEPHILIDAE GLYPHOPSYCHE	6009091300
GLYPHOPSYCHE IRRORATA	6009091301
LIMNEPHILIDAE PSYCHOGLYPHA	6009091400
PSYCHOGLYPHA SUBBOREALIS	6009091401
LIMNEPHILIDAE HYDATOPHYLAX	6009091500
HYDATOPHYLAX ARGUS	6009091501
LIMNEPHILIDAE PYCHNOPSYCHE	6009091600
PYCHNOPSYCHE GUTTIFER	6009091601
PYCHNOPSYCHE SCABRIPENNIS	6009091602
PYCHNOPSYCHE LIMBATA	6009091603
PYCHNOPSYCHE LEPIDA	6009091604
PYCHNOPSYCHE GENTILIS	6009091605
TRICHOPTERA ODONTOCERIDAE	6009100000
ODONTOCERIDAE PSILOTRETA	6009100100
PSILOTRETA FRONTALIS	6009100101
TRICHOPTERA MOLANNIDAE	6009110000
MOLANNIDAE MOLANNA	6009110100
MOLANNA UNIOPHILA	6009110101
MOLANNA BLENDA	6009110102
TRICHOPTERA LEPTOCERIDAE	6009120000
LEPTOCERIDAE TRIAENODES	6009120100
TRIAENODES INJUSTA	6009120101
LEPTOCERIDAE OECETIS	6009120200
OECETIS OSTENI	6009120201
OECETIS INCONSPICUA	6009120202
OECETIS PERSIMILUS	6009120203
LEPTOCERIDAE MYSTACIDES	6009120300
MYSTACIDES SEPULCHRALIS	6009120301
LEPTOCERIDAE CERACLEA	6009120400
CERACLEA ALAGMA	6009120401
CERACLEA ANNULICORNIS	6009120402
CERACLEA DILATA	6009120403
CERACLEA TRANSVERSA	6009120404
CERACLEA CANCOLLATA	6009120405
CERACLEA RUTHAE	6009120406
TRICHOPTERA LEPIDOSTOMATIDAE	6009130000
LEPIDOSTOMATIDAE LEPIDOSTOMA	6009130100
LEPIDOSTOMA VERNALIS	6009130101
LEPIDOSTOMA SACKENI	6009130102
LEPIDOSTOMA SWANNANOA	6009130103
LEPIDOSTOMA TOGATUM	6009130104
LEPIDOSTOMA BRYANTI	6009130105
LEPIDOSTOMA STROPHIS	6009130106
TRICHOPTERA BRACHYCENTRIDAE	6009140000
BRACHYCENTRIDAE MICRASEMA	6009140100
MICRASEMA WATAGA	6009140101
MICRASEMA CHARONIS	6009140102
TRICHOPTERA HELICOPSYCHIDAE	6009150000
HELICOPSYCHIDAE HELICOPSYCHE	6009150100
HELICOPSYCHE BOREALIS	6009150101
INSECTA DIPTERA	6010000000

DIPTERA TIPULIDAE	6010010000
TIPULIDAE ANTOCHA	6010010100
ANTOCHA SAXICOLA	6010010101
TIPULIDAE CHEILOTRICHIA	6010010200
CHEILOTRICHIA STIGMATICA	6010010201
TIPULIDAE DACTYLOLABIS	6010010300
DACTYLOLABIS HUDSONICA	6010010301
DACTYLOLABIS MONTANA	6010010302
DACTYLOLABIS SUPERNUMERARIA	6010010303
TIPULIDAE DICRANOTA	6010010400
DICRANOTA CAYUGA	6010010401
DICRANOTA FLAVEOLA	6010010402
DICRANOTA MODESTA	6010010403
TIPULIDAE DOLICHOPEZA	6010010500
DOLICHOPEZA AMERICANA	6010010501
DOLICHOPEZA CAROLUS	6010010502
DOLICHOPEZA VENOSA	6010010503
TIPULIDAE ERIOPTERA	6010010600
ERIOPTERA ARMATA	6010010601
ERIOPTERA CALIPTERA	6010010602
ERIOPTERA CHLOROPHYLLOIDES	6010010603
ERIOPTERA CRAMPTONELLA	6010010604
ERIOPTERA MEGOPHTHALMA	6010010605
ERIOPTERA SEPTENTRIONIS	6010010606
ERIOPTERA VILLOSA	6010010607
ERIOPTERA VIRIDULA	6010010608
TIPULIDAE GONOMYIA	6010010700
GONOMYIA ALEXANDERI	6010010701
GONOMYIA MATHESONI	6010010702
GONOMYIA SUBCINEREA	6010010703
GONOMYIA SULPHURELLA	6010010704
TIPULIDAE HEXATOMA	6010010800
HEXATOMA BRACHYCERA	6010010801
HEXATOMA SPINOSA	6010010802
TIPULIDAE LIMNOPHILA	6010010900
LIMNOPHILA ADJUSTA	6010010901
LIMNOPHILA ANGUSTULA	6010010902
LIMNOPHILA APRILINA	6010010903
LIMNOPHILA AURIPENNIS	6010010904
LIMNOPHILA BREVIFURCA	6010010905
LIMNOPHILA CAUDIFERA	6010010906
LIMNOPHILA LARICICOLA	6010010907
LIMNOPHILA LUTEA	6010010908
LIMNOPHILA RUFIBASIS	6010010909
LIMNOPHILA SUBCOSTATA	6010010910
LIMNOPHILA TERRAENOVAE	6010010911
TIPULIDAE LIMONIA	6010011000
LIMONIA ANNULATA	6010011001
LIMONIA ANNULUS	6010011002
LIMONIA BREVIVENA	6010011003
LIMONIA CANADENSIS	6010011004
LIMONIA DEFUNCTA	6010011005

LIMONIA DISTINCTA	6010011006
LIMONIA FUSCA	6010011007
LIMONIA GLOBITHORAX	6010011008
LIMONIA HAERETICA	6010011009
LIMONIA HALTERATA	6010011010
LIMONIA HUDSONICA	6010011011
LIMONIA IMMODESTOIDES	6010011012
LIMONIA INDIGENA	6010011013
LIMONIA LECONTEI	6010011014
LIMONIA LIBERTA	6010011015
LIMONIA MORIOIDES	6010011016
LIMONIA PROFUNDA	6010011017
LIMONIA ROSTRATA	6010011018
LIMONIA SPHAGNICOLA	6010011019
LIMONIA TERRAENOVAE	6010011020
TIPULIDAE LIOGMA	6010011100
LIOGMA NODICORNIS	6010011101
TIPULIDAE MOLOPHILUS	6010011200
MOLOPHILUS HIRTIPENNIS	6010011201
MOLOPHILUS PUBIPENNIS	6010011202
MOLOPHILUS QUADRISPINOSUS	6010011203
TIPULIDAE NEPHROTOMA	6010011300
NEPHROTOMA VITTULA	6010011301
TIPULIDAE ORMOSIA	6010011400
ORMOSIA BILINEATA	6010011401
ORMOSIA DENTIFERA	6010011402
ORMOSIA MANICATA	6010011403
ORMOSIA MEGACERA	6010011404
ORMOSIA NIGRIPILA	6010011405
ORMOSIA NIMBIPENNIS	6010011406
ORMOSIA NOTMANI	6010011407
ORMOSIA RUBELLA	6010011408
TIPULIDAE PARADELPHOMYIA	6010011500
PARADELPHOMYIA MINUTA	6010011501
TIPULIDAE PEDICIA	6010011600
PEDICIA ALBIVITTA	6010011601
PEDICIA CALCAR	6010011602
PEDICIA CONTERMINA	6010011603
PEDICIA INCONSTANS	6010011604
PEDICIA MARGARITA	6010011605
PEDICIA PALUDICOLA	6010011606
PEDICIA VERNALIS	6010011607
TIPULIDAE PHALOCROCERA	6010011700
PHALOCROCERA TIPULINA	6010011701
TIPULIDAE PROLIMNOPHILA	6010011800
PROLIMNOPHILA AREOLATA	6010011801
TIPULIDAE PSEUDOLIMNOPHILA	6010011900
PSEUDOLIMNOPHILA CONTEMPTA	6010011901
PSEUDOLIMNOPHILA INORNATA	6010011902
TIPULIDAE RHABDOMASTIX	6010012000
RHABDOMASTIX FLAVA	6010012001
TIPULIDAE SHANNONOMYIA	6010012100

SHANNONOMYIA LENTA	6010012101
TIPULIDAE TASIOCERA	6010012200
TASIOCERA URSINA	6010012201
TIPULIDAE TIPULA	6010012300
TIPULA ABDOMINALIS	6010012301
TIPULA APPENDICULATA	6010012302
TIPULA CALOPTERA	6010012303
TIPULA CAYUGA	6010012304
TIPULA ENTOMOPHTHORAE	6010012305
TIPULA FOOTEANA	6010012306
TIPULA FULTONENSIS	6010012307
TIPULA HERMANNIA	6010012308
TIPULA ILLUSTRIS	6010012309
TIPULA IROQUOIS	6010012310
TIPULA MACROLABIS	6010012311
TIPULA MAINENSIS	6010012312
TIPULA NOVEBORACENSIS	6010012313
TIPULA OROPEZOIDES	6010012314
TIPULA PARSHLEYI	6010012315
TIPULA PENDULIFERA	6010012316
TIPULA PHOROCTENIA	6010012317
TIPULA RESURGENS	6010012318
TIPULA SAYI	6010012319
TIPULA SENEGA	6010012320
TIPULA SERTA	6010012321
TIPULA SPENCERIANA	6010012322
TIPULA STREPENS	6010012323
TIPULA SUBTENNUICORNIS	6010012324
TIPULA TEPHROCEPHALA	6010012325
TIPULA TERNARIA	6010012326
TIPULA TRIPLEX	6010012327
TIPULA TRIVITTATA	6010012328
TIPULA VALIDA	6010012329
TIPULA VICINA	6010012330
TIPULA YOUNGI	6010012331
DIPTERA PTYCHOPTERIDAE	6010020000
PTYCHOPTERIDAE BITTACOMORPHA	6010020100
BITTACOMORPHA CLAVIPES	6010020101
DIPTERA BLEPHARICERIDAE	6010030000
BLEPHARICERIDAE BLEPHARICERA	6010030100
BLEPHARICERA TENUIPES	6010030101
BLEPHARICERA SP.I	6010030102
DIPTERA DIXIDAE	6010040000
DIXIDAE DIXA	6010040100
DIXIDAE DIXELLA	6010040200
DIPTERA CHAOBORIDAE	6010050000
CHAOBORIDAE CHAOBORUS	6010050100
CHAOBORUS AMERICANUS	6010050101
CHAOBORUS TRIVITTATUS	6010050102
CHAOBORIDAE EUROCORETHRA	6010050200
EUROCORETHRA UNDERWOODI	6010050201
DIPTERA CULICIDAE	6010060000

CULICIDAE AEDES	6010060100
AEDES ABSERRATUS	6010060101
AEDES ATROPALPUS	6010060102
AEDES CANADENSIS	6010060103
AEDES CANTATOR	6010060104
AEDES CINEREUS	6010060105
AEDES COMMUNIS	6010060106
AEDES DECTICUS	6010060107
AEDES DIANTAEUS	6010060108
AEDES EXCRUCIANS	6010060109
AEDES FITCHII	6010060110
AEDES HEXODONTUS	6010060111
AEDES IMPLICATUS	6010060112
AEDES INTRUDENS	6010060113
AEDES NIGRIPES	6010060114
AEDES PULLATUS	6010060115
AEDES PUNCTOR	6010060116
AEDES STIMULANS	6010060117
CULICIDAE CULISETA	6010060200
CULISETA IMPATIENS	6010060201
CULISETA MORSITANS	6010060202
CULICIDAE WYEOMYIA	6010060300
WYEOMYIA SMITHII	6010060301
DIPTERA CERATOPOGONIDAE	6010070000
CERATOPOGONIDAE CULICOIDES	6010070100
CULICOIDES CANADENSIS	6010070101
CULICOIDES CREPUSCULARIS	6010070102
CULICOIDES DOWNESI	6010070103
CULICOIDES DENTICULATUS	6010070104
CULICOIDES JAMNBACKI	6010070105
CULICOIDES PILIFERUS	6010070106
CULICOIDES SANGUISUGA	6010070107
CULICOIDES SPAGNUMENSIS	6010070108
CULICOIDES STILOBEZZIOIDES	6010070109
CERATOPOGONIDAE DASYLELA	6010070200
CERATOPOGONIDAE PALPOMYIA	6010070300
DIPTERA CHIRONOMIDAE	6010080000
CHIRONOMIDAE BRILLIA	6010080100
CHIRONOMIDAE CARDIOCLADIUS	6010080200
CHIRONOMIDAE CHASMATONOTUS	6010080300
CHIRONOMIDAE CHIRONOMUS	6010080400
CHIRONOMIDAE CLINOTANYPUS	6010080500
CHIRONOMIDAE CRICOTOPUS	6010080600
CHIRONOMIDAE CRYTOCHIRONOMUS	6010080700
CHIRONOMIDAE DIAMESA	6010080800
CHIRONOMIDAE DICROTENDIPES	6010080900
CHIRONOMIDAE ENDOCHIRONOMUS	6010081000
CHIRONOMIDAE EUKIEFFERIELLA	6010081100
CHIRONOMIDAE GLYPTOTENDIPES	6010081200
CHIRONOMIDAE HETEROTANYTARSUS	6010081300
CHIRONOMIDAE HETEROTRISSOCLADIUS	6010081400
CHIRONOMIDAE LARSIA	6010081500

CHIRONOMIDAE METRIOCNEMUS	6010081600
CHIRONOMIDAE MICROPSECTRA	6010081700
CHIRONOMIDAE MICROTENDIPES	6010081800
CHIRONOMIDAE MONOPELOPIA	6010081900
CHIRONOMIDAE NATARSIA	6010082000
CHIRONOMIDAE NANOCLADIUS	6010082100
CHIRONOMIDAE NILOTANYPUS	6010082200
CHIRONOMIDAE NILOTHAUMA	6010082300
CHIRONOMIDAE PAGASTIA	6010082400
CHIRONOMIDAE PARACHIRONOMUS	6010082500
CHIRONOMIDAE PARAKIEFFERIELLA	6010082600
CHIRONOMIDAE PARAPHAENOCLADIUS	6010082700
CHIRONOMIDAE PARATENDIPES	6010082800
CHIRONOMIDAE PHAENOPSECTRA	6010082900
CHIRONOMIDAE POLYPEDILUM	6010083000
CHIRONOMIDAE POTTHASTIA	6010083100
CHIRONOMIDAE PROCLADIUS	6010083200
CHIRONOMIDAE PSECTROCLADIUS	6010083300
CHIRONOMIDAE RHEOCRICOTOPUS	6010083400
CHIRONOMIDAE RHEOTANYTARSUS	6010083500
CHIRONOMIDAE TANYTARSUS	6010083600
CHIRONOMIDAE THIENEMANNIELLA	6010083700
CHIRONOMIDAE THIENEMANNIMYIA	6010083800
CHIRONOMIDAE TRIBELOS	6010083900
CHIRONOMIDAE TRISSOPELOPIA	6010084000
CHIRONOMIDAE ZAVRELIMYIA	6010084100
DIPTERA SIMULIIDAE	6010090000
SIMULIIDAE PROSIMULIUM	6010090100
PROSIMULIUM PLEURALE	6010090101
PROSIMULIUM MIXTUM	6010090102
PROSIMULIUM MYSTICUM	6010090103
SIMULIIDAE STEGOPTERNA	6010090200
STEGOPTERNA MUTATA	6010090201
SIMULIIDAE CNEPHIA	6010090300
CNEPHIA ORNITHOPHILIA	6010090301
SIMULIIDAE EUSIMULIUM	6010090400
EUSIMULIUM AUREUM	6010090401
EUSIMULIUM CROXTONI	6010090402
EUSIMULIUM EXCISUM	6010090403
EUSIMULIUM EURYADMINICULUM	6010090404
EUSIMULIUM FURCULATUM	6010090405
EUSIMULIUM GOULDINGI	6010090406
EUSIMULIUM PUGETENSE	6010090407
EUSIMULIUM QUEBECENSE	6010090408
EUSIMULIUM VERNUM	6010090409
EUSIMULIUM CONGAREENARUM	6010090410
SIMULIIDAE SIMULIUM	6010090500
SIMULIUM CORBIS	6010090501
SIMULIUM DECORUM	6010090502
SIMULIUM LONGISTYLATUM	6010090503
SIMULIUM RUGGLESI	6010090504
SIMULIUM TUBEROSUM	6010090505

SIMULIUM VENUSTUM	6010090506
SIMULIUM VERECUNDUM	6010090507
SIMULIUM VITTATUM	6010090508
DIPTERA STRATIOMYIDAE	6010100000
STRATIOMYIDAE BERIS	6010100100
BERIS ANNULIFERA	6010100101
STRATIOMYIDAE STRATIOMYIA	6010100200
DIPTERA TABANIDAE	6010110000
TABANIDAE ATYLOTUS	6010110100
ATYLOTUS PEMETICUS	6010110101
TABANIDAE CHRYSOPS	6010110200
CHRYSOPS ATER	6010110201
CHRYSOPS EXCITANS	6010110202
CHRYSOPS FRIGIDUS	6010110203
CHRYSOPS FURCATUS	6010110204
CHRYSOPS MITIS	6010110205
CHRYSOPS NIGRIPES	6010110206
CHRYSOPS SORDIDUS	6010110207
CHRYSOPS ZINZALUS	6010110208
TABANIDAE HYBOMITRA	6010110300
HYBOMITRA AFFINIS	6010110301
HYBOMITRA ARPADI	6010110302
HYBOMITRA AURILIMBUS	6010110303
HYBOMITRA BRENNANI	6010110304
HYBOMITRA FRONTALIS	6010110305
HYBOMITRA LONGIGLOSSA	6010110306
HYBOMITRA LURIDA	6010110307
HYBOMITRA METABOLA	6010110308
HYBOMITRA MINUSCULA	6010110309
HYBOMITRA ZONALIS	6010110310
TABANIDAE TABANUS	6010110400
TABANUS VIVAX	6010110401
DIPTERA EMPIDIDAE	6010120000
EMPIDIDAE HEMERODROMIA	6010120100
EMPIDIDAE HILARA	6010120200
HILARA TRISTIS	6010120201
EMPIDIDAE NEOPLASTA	6010120300
EMPIDIDAE RHAMPHOMYIA	6010120400
RHAMPHOMYIA VALGA	6010120401
RHAMPHOMYIA VIRGATA	6010120402
DIPTERA DOLICHOPODIDAE	6010130000
DOLICHOPODIDAE DOLICHOPUS	6010130100
DOLICHOPUS BOLSTERI	6010130101
DOLICHOPUS GENUALIS	6010130102
DOLICHOPUS MELANOCERUS	6010130103
DOLICHOPUS PLUMIPES	6010130104
DIPTERA SYRPHIDAE	6010140000
SYRPHIDAE ERISTALIS	6010140100
ERISTALIS ANTHOPHORINUS	6010140101
ERISTALIS ARBUSTORUM	6010140102
ERISTALIS BARDUS	6010140103
ERISTALIS INORNATUS	6010140104

ERISTALIS OBSCURUS	6010140105
ERISTALIS TENAX	6010140106
SYRPHIDAE SERICOMYIA	6010140200
SERICOMYIA BIFASCIATA	6010140201
SERICOMYIA CHRYSOTOXOIDES	6010140202
SERICOMYIA MILITARIS	6010140203
SERICOMYIA SEXFASCIATA	6010140204
SERICOMYIA TRANSVERSA	6010140205
DIPTERA COELOPIDAE	6010150000
COELOPIDAE COELOPA	6010150100
COELOPA FRIGIDA	6010150101
DIPTERA SCIOMYZIDAE	6010160000
SCIOMYZIDAE DICTYA	6010160100
DICTYA UMBROIDES	6010160101
SCIOMYZIDAE SCIOMYZA	6010160200
SCIOMYZA DRYOMYZINA	6010160201
SCIOMYZIDAE SEPEDON	6010160300
SEPEDON ARMIPES	6010160301
SEPEDON BOREALIS	6010160302
SEPEDON LIGNATOR	6010160303
SCIOMYZIDAE TETANOCERA	6010160400
TETANOCERA FERRUGINEA	6010160401
TETANOCERA MESOPORA	6010160402
TETANOCERA NANCIAE	6010160403
TETANOCERA OXIA	6010160404
TETANOCERA PLEBJA	6010160405
TETANOCERA ROBUSTA	6010160406
TETANOCERA ROTUNDICORNIS	6010160407
TETANOCERA UNICOLOR	6010160408
TETANOCERA VALIDA	6010160409
TETANOCERA VICINA	6010160410
DIPTERA EPHYDRIDAE	6010170000
EPHYDRIDAE CIRRULA	6010170100
CIRRULA GIGANTEA	6010170101
EPHYDRIDAE EPHYDRA	6010170200
EPHYDRA OBSCURIPES	6010170201
EPHYDRIDAE NEOSCATELLA	6010170300
NEOSCATELLA SETOSA	6010170301
DIPTERA SARCOPHADIDAE	6010180000
SARCOPHADIDAE BLAESOXIPHA	6010180100
BLAESOXIPHA FLETCHERI	6010180101
DIPTERA ANTHOMYIIDAE	6010190000
ANTHOMYIIDAE CORDILURA	6010190100
CORDILURA CONFUSCA	6010190101
CORDILURA LATIFRONS	6010190102
DIPTERA MUSCIDAE	6010200000
MUSCIDAE LISPOCEPHALA	6010200100
LISPOCEPHALA ALMA	6010200101
MUSCIDAE PHAONIA	6010200200
PHAONIA MONTICOLA	6010200201
PHAONIA SERVA	6010200202
MUSCIDAE SPILOGONA	6010200300

SPILOGONA SETINERVIS	6010200301
DIPTERA CECIDOMYIIDAE	6010210000
DIPTERA MYCETOPHILIDAE	6010220000
DIPTERA BIBIONIDAE	6010230000
DIPTERA PHORIDAE	6010240000
DIPTERA SCIARIDAE	6010250000
DIPTERA ANTHOMYZIDAE	6010260000
DIPTERA DROSOPHILIDAE	6010270000
INSECTA PROTURA	6020000000
INSECTA COLLEMBOLA	6021000000
COLLEMBOLA ENTOMOBRYIDAE	6021010000
COLLEMBOLA PODURIDAE	6021020000
COLLEMBOLA ISOTOMIDAE	6021030000
COLLEMBOLA SMINTHURIDAE	6021040000
INSECTA DIPLURA	6022000000
INSECTA THYSANURA	6023000000
INSECTA MICROCORYPHIA	6024000000
INSECTA DERMAPTERA	6029000000
INSECTA ORTHOPTERA	6030000000
INSECTA HOMOPTERA	6031000000
HOMOPTERA CERCOPIDAE	6031010000
HOMOPTERA APHIDAE	6031020000
HOMOPTERA FULGORIDAE	6031030000
HOMOPTERA CICADELLIDAE	6031040000
HOMOPTERA PSYLLIDAE	6031050000
INSECTA PSOCOPTERA	6033000000
INSECTA PHTHIRAPTERA	6035000000
INSECTA THYSANOPTERA	6038000000
THYSANOPTERA PHLOEOTHRIPIDAE	6038010000
INSECTA MEGALOPTERA	6040000000
INSECTA SIPHONAPTERA	6041000000
INSECTA HYMENOPTERA	6043000000
HYMENOPTERA FORMICIDAE	6043010000
HYMENOPTERA APOIDEAE	6043020000
HYMENOPTERA TENTHRIDOIDEA	6043030000
HYMENOPTERA PARASITICA	6043040000
HYMENOPTERA VESPOIDEA	6043050000
INSECTA LEPIDOPTERA	6045000000
LEPIDOPTERA PYRALIDAE	6045010000
PYRALIDAE MUNROESSA	6045010100
MUNROESSA ICCIUSALIS	6045010101
PYRALIDAE PARAPOYNX	6045010200
PARAPOYNX MACULALIS	6045010201
PYRALIDAE PARARGYRACTIS	6045010300
LEPIDOPTERA NOCTUIDAE	6045020000
NOCTUIDAE BELLURA	6045020100
BELLURA DIFFUSA	6045020101
LEPIDOPTERA TORTRICIDAE	6045030000
LEPIDOPTERA GEOMETRIDAE	6045040000
PISCES	6300000000
PISCES ANGUILLIFORMES	6301000000
ANGUILLIFORMES ANGUILLIDAE	6301010000

ANGUILLIDAE ANGUILLA	6301010100
ANGUILLA ROSTRATA	6301010101
PISCES GASTEROSTEIFORMES	6302000000
GASTEROSTEIFORMES GASTEROSTEIDAE	6302010000
GASTEROSTEIDAE GASTEROSTEUS	6302010100
GASTEROSTEUS ACULEATUS	6302010101
GASTEROSTEUS WHEATLANDI	6302010102
GASTEROSTEIDAE PUNGITIUS	6302010200
PUNGITIUS PUNGITIUS	6302010201
GASTEROSTEIDAE APELTES	6302010300
APELTES QUADRACUS	6302010301
PISCES SALMONIFORMES	6303000000
SALMONIFORMES SALMONIDAE	6303010000
SALMONIDAE SALMO	6303010100
SALMO SALAR	6303010101
SALMO GAIRDNERI	6303010102
SALMO TRUTTA	6303010103
SALMONIDAE SALVELINUS	6303010200
SALVELINUS FONTINALIS	6303010201
SALVELINUS ALPINUS	6303010202
SALVELINUS NAMAYCUSH	6303010203
SALMONIDAE COREGONUS	6303010300
COREGONUS CLUPEAFORMIS	6303010301
SALMONIDAE PROSOPIUM	6303010400
PROSOPIUM CYLINDRACEUM	6303010401
SALMONIDAE ONCORHYNCHUS	6303010500
ONCORHYNCHUS GORBUSCHA	6303010501
SALMONIFORMES OSMERIDAE	6303020000
OSMERIDAE OSMERUS	6303020100
OSMERUS MORDAX	6303020101
SALMONIFORMES ESOCIDAE	6303030000
ESOCIDAE ESOX	6303030100
ESOX LUCIUS	6303030101
PISCES PETROMYZONTIFORMES	6304000000
PETROMYZONTIFORM PETROMYZONTIDAE	6304010000
PETROMYZONTIDAE PETROMYZON	6304010100
PETROMYZON MARINUS	6304010101
PISCES ACIPENSERIFORMES	6305000000
ACIPENSERIFORMES ACIPENSERIDAE	6305010000
ACIPENSERIDAE ACIPENSER	6305010100
ACIPENSER OXYRHYNCHUS	6305010101
PISCES CLUPEIFORMES	6306000000
CLUPEIFORMES CLUPEIDAE	6306010000
CLUPEIDAE ALOSA	6306010100
ALOSA PSEUDOHARENGUS	6306010101
ALOSA SAPIDISSIMA	6306010102
PISCES CYPRINIFORMES	6307000000
CYPRINIFORMES CYPRINIDAE	6307010000
CYPRINIDAE COUESIUS	6307010100
COUESIUS PLUMBEUS	6307010101
CYPRINIDAE RHINICHTHYS	6307010200
RHINICHTHYS CATARACTAE	6307010201

CYPRINIFORMES CATOSTOMIDAE	6307020000
CATOSTOMIDAE CATOSTOMUS	6307020100
CATOSTOMUS CATOSTOMUS	6307020101
CATOSTOMUS COMMERSONI	6307020102
PISCES GADIFORMES	6308000000
GADIFORMES GADIDAE	6308010000
GADIDAE MICROGADUS	6308010100
MICROGADUS TOMCOD	6308010101
GADIDAE LOTA	6308010200
LOTA LOTA	6308010201
PISCES ATHERINIFORMES	6309000000
ATHERINIFORMES CYPRINODONTIDAE	6309010000
CYPRINODONTIDAE FUNDULUS	6309010100
FUNDULUS DIAPHANUS	6309010101
FUNDULUS HETEROCLITUS	6309010102
PISCES PERCIFORMES	6310000000
PERCIFORMES AMMODYTIDAE	6310010000
AMMODYTIDAE AMMODYTES	6310010100
AMMODYTES AMERICANUS	6310010101
PERCIFORMES COTTIDAE	6310020000
COTTIDAE COTTUS	6310020100
COTTUS BAIRDI	6310020101
COTTUS COGNATUS	6310020102
PISCES PLEURONECTIFORMES	6311000000
PLEURONECTIFORMES PLEURONECTIDAE	6311010000
PLEURONECTIDA PSEUDOPLEURONECTES	6311010100
PSEUDOPLEURONECTES AMERICANUS	6311010101
PLEURONECTIFORMES BOTHIDAE	6311020000
BOTHIDAE SCOPHTHALMUS	6311020100
SCOPHTHALMUS AQUOSUS	6311020101
AMPHIBIA	6600000000
AMPHIBIA CAUDATA	6601000000
AMPHIBIA ANURA	6602000000
REPTILIA	6900000000
AVES	7200000000
MAMMALIA	7500000000
MAMMALIA INSECTIVORA	7501000000
INSECTIVORA SORICIDAE	7501010000
MAMMALIA RODENTIA	7502000000
RODENTIA CRICETIDAE	7502010000
UNIDENTIFIED MATERIAL	9801000000
ANIMAL MATTER	9802000000
PLANT MATTER	9803000000
INVERTEBRATE MATTER	9804000000
DETRITUS	9805000000
ANNELIDA	9806000000
ZOOPLANKTON	9807000000
PLANKTON	9808000000
ALGA	9809000000
PARASITE	9810000000
MOLLUSC	9811000000
SAND	9812000000

STONE	9813000000
OFFAL	9814000000

```
          DOCCONCUR                                      [illegible]
          [illegible]                                    [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]



  [illegible]                                  [illegible]
  [illegible]                                  [illegible]
  [illegible]                                  [illegible]
  [illegible]                                  [illegible]
  [illegible]                                  [illegible]
  [illegible]                                  [illegible]
  [illegible]                                  [illegible]
  [illegible]                                  [illegible]
  [illegible]
```

APPENDIX B. LIST OF TAXA CITED [illegible] AND [illegible] [illegible] ARRANGED ALPHABETICALLY BY TAXA

ACANTHOCEPHALA	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
ACINETIDAE	[illegible]
ACIPENSER	[illegible]
ACIPENSERIDAE	[illegible]
ACIPENSERIFORMES	[illegible]
ACROLOXIDAE	[illegible]
[illegible]	[illegible]
ACROPERUS	[illegible]
[illegible]	[illegible]
ACTINOPTERYGII	[illegible]
ACTINOPHRYS	[illegible]
AEDES	[illegible]
AESHNA	[illegible]
AESHNIDAE	[illegible]
AGABUS	[illegible]
AGRAYLEA	[illegible]
AGRYPNIA	[illegible]
ALGA	[illegible]
ALLOCAPNIA	[illegible]
ALLOPERLA	[illegible]
ALONA	[illegible]
ALONELLA	[illegible]
ALONOPSIS	[illegible]
ALOSA	[illegible]
AMELETUS	[illegible]
AMMODYTES	[illegible]
AMMODYTIDAE	[illegible]
AMNICOLA	[illegible]
AMOEBIDA	[illegible]
AMOEBIDAE	[illegible]
[illegible]	[illegible]
AMPHIMONADIDAE	[illegible]
AMPHIPODA	[illegible]
AMPULLARIIDAE	[illegible]
ANABAENA	[illegible]
ANCHISTROPUS	[illegible]
ANCYLIDAE	[illegible]
ANGUILLA	[illegible]
ANGUILLIDAE	[illegible]
ANGUILLIFORMES	[illegible]
ANIMAL MATTER	[illegible]
ANISOPTERA	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

APPENDIX 2: LIST OF TAXA OTHER THAN SPECIES AND CORRESPONDING CODES ORDERED ALPHABETICALLY BY TAXA

ACANTHOCEPHALA	2200000000
ACANTHOLEBERIS	4501030100
ACILIUS	6008021300
ACINETIDAE	0102050000
ACIPENSER	6305010100
ACIPENSERIDAE	6305010000
ACIPENSERIFORMES	6305000000
ACROLOXIDAE	3003040000
ACRONEURIA	6005050100
ACROPERUS	4501080100
ACTINOPHRYDIA	0103000000
ACTINOPHRYIDAE	0103010000
ACTINOPHRYS	0103010100
AEDES	6010060100
AESHNA	6004010100
AESHNIDAE	6004010000
AGABUS	6008020600
AGRAYLEA	6009060300
AGRYPNIA	6009080400
ALGA	9809000000
ALLOCAPNIA	6005020100
ALLOPERLA	6005040100
ALONA	4501080200
ALONELLA	4501080300
ALONOPSIS	4501080900
ALOSA	6306010100
AMELETUS	6001010100
AMMODYTES	6310010100
AMMODYTIDAE	6310010000
AMNICOLA	3001040100
AMOEBIDA	0101000000
AMOEBIDAE	0101020000
AMPHIBIA	6600000000
AMPHIMONADIDAE	0104010000
AMPHIPODA	5502000000
AMPULLARIIDAE	3001010000
ANACAENA	6008040500
ANCHISTROPUS	4501080400
ANCYLIDAE	3003060000
ANGUILLA	6301010100
ANGUILLIDAE	6301010000
ANGUILLIFORMES	6301000000
ANIMAL MATTER	9802000000
ANISOPTERA	6004000000
ANNELIDA	9806000000
ANOBOLIA	6009091200
ANTHOMYIIDAE	6010190000
ANTHOMYZIDAE	6010260000
ANTOCHA	6010010100
ANURA	6602000000
APATANIA	6009090100
APELTES	6302010300

APHIDAE	6031020000
APOIDEAE	6043020000
ARACHNOIDEA	3900000000
ARANEAE	3901000000
ARCHAEOGASTROPODA	3002000000
ARCTOCORISA	6006010100
ARCTOPORA	6009090800
ARCTOPSYCHE	6009050100
ASPLANCHNA	1706020100
ASPLANCHNIDAE	1706020000
ASYNARCHUS	6009091000
ATHERINIFORMES	6309000000
ATYLOTUS	6010110100
AVES	7200000000
BAETIDAE	6001020000
BAETIS	6001020100
BANKSIOLA	6009080500
BASOMMATOPHORA	3003000000
BDELLOIDEA	1705000000
BELLURA	6045020100
BELOSTOMATIDAE	6006030000
BERIS	6010100100
BIBIONIDAE	6010230000
BIPALPUS	1706030100
BITHYNIIDAE	3001030000
BITTACOMORPHA	6010020100
BLAESOXIPHA	6010180100
BLEPHARICERA	6010030100
BLEPHARICERIDAE	6010030000
BOSMINA	4501050100
BOSMINIDAE	4501050000
BOTHIDAE	6311020000
BRACHIONIDAE	1706010000
BRACHIONUS	1706010100
BRACHYCENTRIDAE	6009140000
BRANCHIOPODA	4500000000
BRILLIA	6010080100
BRYOZOA	2600000000
CAENIDAE	6001070000
CAENIS	6001070100
CALANOIDA	4201000000
CALLIBAETIS	6001020200
CALLICORIXA	6006010200
CALOPTERYGIDAE	6003010000
CALOPTERYX	6003010100
CANTHARIDAE	6008130000
CAPNIIDAE	6005020000
CARABIDAE	6008160000
CARDIOCLADIUS	6010080200
CATOSTOMIDAE	6307020000
CATOSTOMUS	6307020100
CAUDATA	6601000000

CECIDOMYIIDAE	6010210000
CENTROPTILUM	6001020300
CERACLEA	6009120400
CERATOPOGONIDAE	6010070000
CERCOPIDAE	6031010000
CERIODAPHNIA	4501040100
CESTOIDEA	0900000000
CHAETONOTIDAE	1505010000
CHAETONOTOIDEA	1505000000
CHAOBORIDAE	6010050000
CHAOBORUS	6010050100
CHASMATONOTUS	6010080300
CHEILOTRICHIA	6010010200
CHEUMATOPSYCHE	6009050400
CHILOPODA	5600000000
CHIMARRA	6009030200
CHIRONOMIDAE	6010080000
CHIRONOMUS	6010080400
CHLOROPERLIDAE	6005040000
CHRYSOMELIDAE	6008070000
CHRYSOPS	6010110200
CHYDORIDAE	4501080000
CHYDORUS	4501080500
CICADELLIDAE	6031040000
CILIOPHORA	0102000000
CIRRULA	6010170100
CLADOCERA	4501000000
CLADOMONAS	0104010100
CLIMACIA	6007010100
CLINOTANYPUS	6010080500
CLUPEIDAE	6306010000
CLUPEIFORMES	6306000000
CNEPHIA	6010090300
COELOPA	6010150100
COELOPIDAE	6010150000
COENAGRIIDAE	6003030000
COENAGRION	6003030200
COLEOPTERA	6008000000
COLLEMBOLA	6021000000
COLLOTHECA	1708010100
COLLOTHECACEA	1708000000
COLLOTHECIDAE	1708010000
COLYMBETES	6008021000
CONOCHILIDAE	1707010000
CONOCHILUS	1707010100
COPELATUS	6008020800
COPEPODA	4200000000
CORDILURA	6010190100
CORDULIA	6004030100
CORDULIIDAE	6004030000
COREGONUS	6303010300
CORIXIDAE	6006010000

COTTIDAE	6310020000
COTTUS	6310020100
COUESIUS	6307010100
CRANGONYX	5502020100
CRENITIS	6008040400
CRICETIDAE	7502010000
CRICOTOPUS	6010080600
CRYPTOPHAGIDAE	6008150000
CRYTOCHIRONOMUS	6010080700
CULICIDAE	6010060000
CULICOIDES	6010070100
CULISETA	6010060200
CURCULIONIDAE	6008090000
CYCLOPIDAE	4202010000
CYCLOPOIDA	4202000000
CYCLOPS	4202010100
CYMBIODYTA	6008040700
CYPHON	6008050200
CYPRINIDAE	6307010000
CYPRINIFORMES	6307000000
CYPRINODONTIDAE	6309010000
DACTYLOLABIS	6010010300
DAPHNIA	4501040200
DAPHNIDAE	4501040000
DASYCORIXA	6006010300
DASYLELA	6010070200
DEMOSPONGEA	0300000000
DERMAPTERA	6029000000
DERMESTES	6008170100
DERMESTIDAE	6008170000
DERONECTES	6008020400
DETRITUS	9805000000
DIAMESA	6010080800
DIAPHANOSOMA	4501010300
DIAPTOMIDAE	4201020000
DIAPTOMUS	4201020100
DICRANOTA	6010010400
DICROTENDIPES	6010080900
DICTYA	6010160100
DIFFLUGIIDAE	0105010000
DIPLECTRONA	6009050500
DIPLOPODA	5800000000
DIPLURA	6022000000
DIPTERA	6010000000
DISPARALONA	4501080600
DIXA	6010040100
DIXELLA	6010040200
DIXIDAE	6010040000
DOLICHOPEZA	6010010500
DOLICHOPODIDAE	6010130000
DOLICHOPUS	6010130100
DOLOPHILODES	6009030100

DONACIA	6008070100
DROSOPHILIDAE	6010270000
DRUNELLA	6001050100
DRYOPODIDAE	6008120000
DUGESIA	0705010100
DYTISCIDAE	6008020000
DYTISCUS	6008021400
ELATERIDAE	6008080000
ELMIDAE	6008060000
EMPIDIDAE	6010120000
ENALLAGMA	6003030300
ENDOCHIRONOMUS	6010081000
ENOCHRUS	6008040600
ENTOMOBRYIDAE	6021010000
EPEORUS	6001030100
EPHEMERELLA	6001050200
EPHEMERELLIDAE	6001050000
EPHEMERIDAE	6001080000
EPHEMEROPTERA	6001000000
EPHYDRA	6010170200
EPHYDRIDAE	6010170000
EPISCHURA	4201010100
EPISTYLIDAE	0102040000
ERGASILIDAE	4202020000
ERGASILUS	4202020100
ERIOPTERA	6010010600
ERISTALIS	6010140100
ESOCIDAE	6303030000
ESOX	6303030100
EUBOSMINA	4501050200
EUCHLANIDAE	1706050000
EUCHLANIS	1706050100
EUCYCLOPS	4202010200
EUKIEFFERIELLA	6010081100
EULAMELLIBRANCHIA	3301000000
EUROCORETHRA	6010050200
EURYLOPHELLA	6001050300
EURYTEMORA	4201010200
EUSIMULIUM	6010090400
FABRIA	6009080600
FERRISSIA	3003060100
FLOSCULARIACEA	1707000000
FORMICIDAE	6043010000
FRONTIPODA	3902020100
FULGORIDAE	6031030000
FUNDULUS	6309010100
GADIDAE	6308010000
GADIFORMES	6308000000
GALERUCELLA	6008070200
GAMMARIDAE	5502020000
GASTEROSTEIDAE	6302010000
GASTEROSTEIFORMES	6302000000

GASTEROSTEUS	6302010100
GASTROPODA	3000000000
GASTROPODIDAE	1706040000
GASTROPUS	1706040100
GASTROTRICHA	1500000000
GEOMETRIDAE	6045040000
GERRIDAE	6006060000
GERRIS	6006060100
GLAENOCORISA	6006010400
GLOSSIPHONIIDAE	3501010000
GLOSSOSOMA	6009020100
GLOSSOSOMATIDAE	6009020000
GLYPHOPSYCHE	6009091300
GLYPTOTENDIPES	6010081200
GOMPHIDAE	6004020000
GONOMYIA	6010010700
GORDIOIDEA	2001000000
GRAPHODERUS	6008021200
GRAPTOLEBERIS	4501080700
GYRAULUS	3003030200
GYRINIDAE	6008030000
GYRINUS	6008030100
HABROPHLEBIA	6001040100
HALIPLIDAE	6008010000
HALIPLUS	6008010100
HARPACTICOIDA	4203000000
HELICOPSYCHE	6009150100
HELICOPSYCHIDAE	6009150000
HELISOMA	3003030100
HELODES	6008050100
HELODIDAE	6008050000
HELOPHORUS	6008040100
HEMEROBIIDAE	6007020000
HEMERODROMIA	6010120100
HEMIPTERA	6006000000
HEPTAGENIA	6001030200
HEPTAGENIIDAE	6001030000
HESPEROCORIXA	6006010500
HESPEROPHYLAX	6009090700
HETERODONTA	3302000000
HETEROTANYTARSUS	6010081300
HETEROTRISSOCLADIUS	6010081400
HEXAGENIA	6001080100
HEXATOMA	6010010800
HILARA	6010120200
HIRUDINEA	3500000000
HOLOPEDIDAE	4501020000
HOLOPEDIUM	4501020100
HOMOPTERA	6031000000
HYALLELA	5502010100
HYBOMITRA	6010110300
HYDATOPHYLAX	6009091500

HYDRA	0501010100
HYDRACARINA	3902000000
HYDRACHNA	3902010100
HYDRACHNIDAE	3902010000
HYDRIDAE	0501010000
HYDROBIIDAE	3001040000
HYDROBIUS	6008040800
HYDROIDA	0501000000
HYDROPHILIDAE	6008040000
HYDROPORUS	6008020500
HYDROPSYCHE	6009050300
HYDROPSYCHIDAE	6009050000
HYDROPTILA	6009060100
HYDROPTILIDAE	6009060000
HYDROZOA	0500000000
HYGROTUS	6008020200
HYMENOPTERA	6043000000
ILYBIUS	6008020700
ILYOCRYPTUS	4501030200
INSECTA	6000000000
INSECTIVORA	7501000000
INVERTEBRATE MATTER	9804000000
ISCHNURA	6003030400
ISOGENUS	6005060100
ISOPERLA	6005060200
ISOPODA	5501000000
ISOTOMIDAE	6021030000
KELLICOTTIA	1706010200
KERATELLA	1706010300
LACCOBIUS	6008040200
LANCIDAE	3003050000
LARSIA	6010081500
LATHONURA	4501030500
LATHRIDIIDAE	6008110000
LATONA	4501010100
LECANE	1706010400
LENARCHUS	6009090900
LEPIDOPTERA	6045000000
LEPIDOSTOMA	6009130100
LEPIDOSTOMATIDAE	6009130000
LEPTOCERIDAE	6009120000
LEPTODORA	4501060100
LEPTODORIDAE	4501060000
LEPTOPHLEBIA	6001040200
LEPTOPHLEBIIDAE	6001040000
LESTES	6003020100
LESTIDAE	6003020000
LETHOCERUS	6006030100
LEUCORRHINIA	6004040100
LEUCTRA	6005010100
LEUCTRIDAE	6005010000
LIBELLULA	6004040200

LIBELLULIDAE	6004040000
LIMNEPHILIDAE	6009090000
LIMNEPHILUS	6009091100
LIMNOPHILA	6010010900
LIMONIA	6010011000
LIODESSUS	6008020100
LIOGMA	6010011100
LISPOCEPHALA	6010200100
LITHOBIOMORPHA	5601000000
LOTA	6308010200
LYMNAEA	3003020100
LYMNAEIDAE	3003020000
MACROCYCLOPS	4202010400
MACROTHRICIDAE	4501030000
MALOCOSTRACA	5500000000
MAMMALIA	7500000000
MASTIGOPHORA	0104000000
MATERIAL	9801000000
MEGALOPTERA	6040000000
MESOCYCLOPS	4202010300
MESOGASTROPODA	3001000000
MESOVELIA	6006040100
MESOVELIIDAE	6006040000
METRIOCNEMUS	6010081600
MICRASEMA	6009140100
MICROCORYPHIA	6024000000
MICROGADUS	6308010100
MICROPSECTRA	6010081700
MICROTENDIPES	6010081800
MICROVELIA	6006050100
MIRIDAE	6006090000
MOLANNA	6009110100
MOLANNIDAE	6009110000
MOLLUSC	9811000000
MOLOPHILUS	6010011200
MONOPELOPIA	6010081900
MUNROESSA	6045010100
MUSCIDAE	6010200000
MYCETOPHILIDAE	6010220000
MYSTACIDES	6009120300
NAEGLERIIDAE	0101010000
NANOCLADIUS	6010082100
NATARSIA	6010082000
NEHALENNIA	6003030100
NEMATODA	1900000000
NEMATOMORPHA	2000000000
NEMERTEA	1300000000
NEMOTAULIUS	6009090600
NEMOURA	6005030100
NEMOURIDAE	6005030000
NEOPHYLAX	6009090200
NEOPLASTA	6010120300

NEOSCATELLA	6010170300
NEOSCUTOPTERUS	6008021100
NEPHROTOMA	6010011300
NERTIDAE	3002010000
NEURECLIPSIS	6009040100
NEUROPTERA	6007000000
NILOTANYPUS	6010082200
NILOTHAUMA	6010082300
NOCTUIDAE	6045020000
NOTONECTA	6006020100
NOTONECTIDAE	6006020000
NYCTIOPHYLAX	6009040200
ODONATA	6002000000
ODONTOCERIDAE	6009100000
OECETIS	6009120200
OFFAL	9814000000
OLIGOCHAETA	3600000000
OLIGOSTOMIS	6009080300
ONCORHYNCHUS	6303010500
ONOCOSMOECUS	6009090400
OPHIOGOMPHUS	6004020100
OPHRYOXUS	4501030300
OREODYTES	6008020300
ORMOSIA	6010011400
ORTHOPTERA	6030000000
OSMERIDAE	6303020000
OSMERUS	6303020100
OSTRACODA	5000000000
OULIMNIUS	6008060100
OXIDAE	3902020000
OXYETHIRA	6009060200
PAGASTIA	6010082400
PALMOCORIXA	6006010600
PALPOMYIA	6010070300
PANTALA	6004040300
PARACAPNIA	6005020200
PARACHIRONOMUS	6010082500
PARACYMUS	6008040300
PARADELPHOMYIA	6010011500
PARAKIEFFERIELLA	6010082600
PARALEPTOPHLEBIA	6001040300
PARAMECIIDAE	0102010000
PARAMECIUM	0102010100
PARAPHAENOCLADIUS	6010082700
PARAPOYNX	6045010200
PARAPSYCHE	6009050200
PARARGYRACTIS	6045010300
PARASITE	9810000000
PARASITICA	6043040000
PARATENDIPES	6010082800
PAROPHRYOXUS	4501030600
PAUROPODA	5900000000

PEDICIA	6010011600
PELECYPODA	3300000000
PENTACORA	6006070100
PERCIFORMES	6310000000
PERLIDAE	6005050000
PERLODIDAE	6005060000
PETROMYZON	6304010100
PETROMYZONTIDAE	6304010000
PETROMYZONTIFORMES	6304000000
PHAENOPSECTRA	6010082900
PHALANGIDA	3903000000
PHALOCROCERA	6010011700
PHAONIA	6010200200
PHILOPOTAMIDAE	6009030000
PHLOEOTHRIPIDAE	6038010000
PHORIDAE	6010240000
PHRYGANEA	6009080200
PHRYGANEIDAE	6009080000
PHTHIRAPTERA	6035000000
PHYSA	3003010100
PHYSIDAE	3003010000
PISCES	6300000000
PLANARIIDAE	0705010000
PLANKTON	9808000000
PLANORBIDAE	3003030000
PLANT MATTER	9803000000
PLATYCENTROPUS	6009090500
PLECOPTERA	6005000000
PLEUROCERIDAE	3001070000
PLEURONECTIDAE	6311010000
PLEURONECTIFORMES	6311000000
PLOESOMA	1706030200
PLOIMA	1706000000
PODOCOPA	5001000000
PODURIDAE	6021020000
POLYARTHRA	1706030300
POLYCENTROPODIDAE	6009040000
POLYCENTROPUS	6009040300
POLYCHAETA	3700000000
POLYPEDILUM	6010083000
POLYPHEMIDAE	4501070000
POLYPHEMUS	4501070100
POTTHASTIA	6010083100
PROCLADIUS	6010083200
PROLIMNOPHILA	6010011800
PROMORESIA	6008060200
PROSIMULIUM	6010090100
PROSOPIUM	6303010400
PROTOZOA	0100000000
PROTURA	6020000000
PSECTROCLADIUS	6010083300
PSEUDOLIMNOPHILA	6010011900

PSEUDOPLEURONECTES	6311010100
PSEUDOSTENOPHYLAX	6009090300
PSILOTRETA	6009100100
PSOCOPTERA	6033000000
PSYCHOGLYPHA	6009091400
PSYCHOMYIIDAE	6009070000
PSYLLIDAE	6031050000
PTILOSTOMIS	6009080100
PTYCHOPTERIDAE	6010020000
PUNGITIUS	6302010200
PYCHNOPSYCHE	6009091600
PYRALIDAE	6045010000
REDUVIIDAE	6006080000
REPTILIA	6900000000
RHABDOMASTIX	6010012000
RHAMPHOMYIA	6010120400
RHANTUS	6008020900
RHEOCRICOTOPUS	6010083400
RHEOTANYTARSUS	6010083500
RHINICHTHYS	6307010200
RHITHROGENA	6001030300
RHYACOPHILA	6009010100
RHYACOPHILIDAE	6009010000
RHYNCHOBDELLIDA	3501000000
RHYNCHOTALONA	4501080800
RODENTIA	7502000000
ROTATORIA	1700000000
SALDA	6006070200
SALDIDAE	6006070000
SALDULA	6006070300
SALMO	6303010100
SALMONIDAE	6303010000
SALMONIFORMES	6303000000
SALVELINUS	6303010200
SAND	9812000000
SARCOPHADIDAE	6010180000
SCIARIDAE	6010250000
SCIOMYZA	6010160200
SCIOMYZIDAE	6010160000
SCOLYTIDAE	6008140000
SCOPHTHALMUS	6311020100
SEPEDON	6010160300
SERICOMYIA	6010140200
SHANNONOMYIA	6010012100
SIDA	4501010200
SIDIDAE	4501010000
SIGARA	6006010700
SIMOCEPHALUS	4501040300
SIMULIIDAE	6010090000
SIMULIUM	6010090500
SIPHLONURIDAE	6001010000
SIPHLONURUS	6001010200

SIPHONAPTERA	6041000000
SISYRIDAE	6007010000
SMINTHURIDAE	6021040000
SOMATOCHLORA	6004030200
SORICIDAE	7501010000
SPHAERIIDAE	3302010000
SPILOGONA	6010200300
STAGNICOLA	3003020200
STAPHYLINIDAE	6008100000
STEGOPTERNA	6010090200
STENELMIS	6008060300
STENONEMA	6001030400
STONE	9813000000
STRATIOMYIA	6010100200
STRATIOMYIDAE	6010100000
STREBLOCERUS	4501030400
SYMPETRUM	6004040400
SYMPHYLA	5700000000
SYNCHAETA	1706030400
SYNCHAETIDAE	1706030000
SYRPHIDAE	6010140000
TABANIDAE	6010110000
TABANUS	6010110400
TAENIOPTERYGIDAE	6005070000
TALITRIDAE	5502010000
TANYTARSUS	6010083600
TARDIGRADA	2300000000
TASIOCERA	6010012200
TEMORIDAE	4201010000
TENTHRIDOIDEA	6043030000
TESTICIDA	0105000000
TETANOCERA	6010160400
THECACINETA	0102050100
THIARIDAE	3001020000
THIENEMANNIELLA	6010083700
THIENEMANNIMYIA	6010083800
THYSANOPTERA	6038000000
THYSANURA	6023000000
TINTINNIDAE	0102020000
TINTINNOPSIS	0102020100
TIPULA	6010012300
TIPULIDAE	6010010000
TORTRICIDAE	6045030000
TREMATODA	1100000000
TRIAENODES	6009120100
TRIBELOS	6010083900
TRICHOCERCA	1706060100
TRICHOCERCIDAE	1706060000
TRICHOCORIXA	6006010800
TRICHOPTERA	6009000000
TRICHOTRIA	1706010500
TRICLADIDA	0705000000

TRICORYTHIDAE	6001060000
TRICORYTHODES	6001060100
TRISSOPELOPIA	6010084000
TROPOCYCLOPS	4202010500
TURBELLARIA	0700000000
UNIONIDAE	3301010000
VALVATA	3001060100
VALVATIDAE	3001060000
VELIIDAE	6006050000
VESPOIDEA	6043050000
VIVIPARIDAE	3001050000
VIVIPARUS	3001050100
VORTICELLIDAE	0102030000
WORMALDIA	6009030300
WYEOMYIA	6010060300
ZAVRELIMYIA	6010084100
ZOOPLANKTON	9807000000
ZOOTHAMNIUM	0102030100
ZYGOPTERA	6003000000

APPENDIX 3: SYSTEMATICALLY STRUCTURED LIST OF TAXA AND CORRESPONDING CODES ORDERED BY CODE SEQUENCE (ONLY NUMBERS 1-99 ARE SHOWN IN THE FIELDS)

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Protozoa					1				
	Amoebida				1	1			
		Naegleriidae			1	1	1		
		Amoebidae			1	1	2		
	Ciliophora*				1	2			
		Paramecidae			1	2	1		
			Paramecium		1	2	1	1	
		Tintinnidae			1	2	2		
			Tintinnopsis		1	2	2	1	
		Vorticellidae			1	2	3		
			Zoothamnium		1	2	3	1	
		Epistylidae			1	2	4		
		Acinetidae			1	2	5		
			Thecacineta		1	2	5	1	

---

*Subphylum

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
	Actinophrydia				1	3			
		Actinophryidae			1	3	1		
			Actinophrys		1	3	1	1	
	Mastigophora**				1	4			
		Amphimonadidae			1	4	1		
			Cladomonas		1	4	1	1	
	Testicida				1	5			
		Difflugiidae			1	5	1		
Demospongea					3				

**Class

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Hydrozoa					5				
	Hydroida				5	1			
		Hydridae			5	1	1		
			Hydra		5	1	1	1	
Turbellaria					7				
	Tricladida				7	5			
		Planariidae			7	5	1		
			Dugesia		7	5	1	1	
Cestoidea					9				

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
Trematoda					11
Nemertea					13
Gastrotricha					15
	Chaetonotoidea				15 5
		Chaetonotidae			15 5 1

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
Rotatoria					17				
	Bdelloidea				17	5			
	Ploima				17	6			
		Brachionidae			17	6	1		
			Brachionus		17	6	1	1	
				quadridentatus	17	6	1	1	1
			Kellicottia		17	6	1	2	
				longispina	17	6	1	2	1
				bostoniensis	17	6	1	2	2
			Keratella		17	6	1	3	
				cochlearis	17	6	1	3	1
				crassa	17	6	1	3	2
				taurocephala	17	6	1	3	3
				serrulata	17	6	1	3	4
				earlinae	17	6	1	3	5
				quadrata	17	6	1	3	6

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Lecane		17	6	1	4	
				lunaris	17	6	1	4	1
				curvicornis	17	6	1	4	2
				bulla	17	6	1	4	3
				luna	17	6	1	4	4
			Trichotria		17	6	1	5	
				tetractis	17	6	1	5	1
		Asplanchnidae			17	6	2		
			Asplanchna		17	6	2	1	
				priodonta	17	6	2	1	1
		Synchaetidae			17	6	3		
			Bipalpus		17	6	3	1	
				hudsoni	17	6	3	1	1
			Ploesoma		17	6	3	2	
				truncatum	17	6	3	2	1
				lenticulare	17	6	3	2	2
				hudsoni	17	6	3	2	3

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Polyarthra		17	6	3	3	
				dolicoptera	17	6	3	3	1
				major	17	6	3	3	2
				minor	17	6	3	3	3
				vulgaris	17	6	3	3	4
				euryptera	17	6	3	3	5
			Synchaeta		17	6	3	4	
				pectinata	17	6	3	4	1
				grandis	17	6	3	4	2
				stylata	17	6	3	4	3
		Gastropodidae			17	6	4		
			Gastropus		17	6	4	1	
				stylifer	17	6	4	1	1
		Euchlanidae			17	6	5		
			Euchlanis		17	6	5	1	
				dilatata	17	6	5	1	1

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Trichocercidae			17	6	6		
			Trichocerca		17	6	6	1	
				platessa	17	6	6	1	1
				cylindrica	17	6	6	1	2
				longiseta	17	6	6	1	3
				capucina	17	6	6	1	4
				multicrinis	17	6	6	1	5
	Flosculariacea				17	7			
		Conochilidae			17	7	1		
			Conochilus		17	7	1	1	
				unicornis	17	7	1	1	1
	Collothecacea				17	8			
		Collothecidae			17	8	1		
			Collotheca		17	8	1	1	
				mutabilis	17	8	1	1	1
Nematoda					19				

Protozoa to Bryozoa

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Nematomorpha					20				
	Gordioidea				20	1			
Acanthocephala					22				
Tardigrada					23				
Bryozoa					26				

Gastropoda

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
Gastropoda					30
	Mesogastropoda				30 1
		Ampullariidae			30 1 1
		Thiaridae			30 1 2
		Bithyniidae			30 1 3
		Hydrobiidae			30 1 4
			Amnicola		30 1 4 1
		Viviparidae			30 1 5
			Viviparus		30 1 5 1
		Valvatidae			30 1 6
			Valvata		30 1 6 1

Gastropoda

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00				
					00	00	00	00	00
		Pleuroceridae			30	1	7		
	Archaeogastropoda				30	2			
		Nertidae			30	2	1		
	Basommatophora				30	3			
		Physidae			30	3	1		
			Physa		30	3	1	1	
				heterostropha	30	3	1	1	1
		Lymnaeidae			30	3	2		
			Lymnaea		30	3	2	1	
			Stagnicola		30	3	2	2	

Gastropoda

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Planorbidae			30	3	3		
			Helisoma		30	3	3	1	
			Gyraulus		30	3	3	2	
				deflectus	30	3	3	2	1
		Acroloxidae			30	3	4		
		Lancidae			30	3	5		
		Ancylidae			30	3	6		
			Ferrissia		30	3	6	1	
				parallela	30	3	6	1	1

Pelecypoda

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Pelecypoda					33				
	Eulamellibranchia				33	1			
		Unionidae			33	1	1		
	Heterodonta				33	2			
		Sphaeriidae			33	2	1		

Annelida and Arachnoidea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Hirudinea					35				
	Rhynchobdellida				35	1			
		Glossiphoniidae			35	1	1		
Oligochaeta					36				
Polychaeta					37				
Arachnoidea					39				
	Araneae				39	1			

Annelida and Arachnoidea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Hydracarina				39	2			
		Hydrachnidae			39	2	1		
			Hydrachna		39	2	1	1	
		Oxidae			39	2	2		
			Frontipoda		39	2	2	1	
	Phalangida				39	3			

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Copepoda					42				
	Calanoida				42	1			
		Temoridae			42	1	1		
			Epischura		42	1	1	1	
				lacustris	42	1	1	1	1
				nordenskioldi	42	1	1	1	2
			Eurytemora		42	1	1	2	
				affinis	42	1	1	2	1
		Diaptomidae			42	1	2		
			Diaptomus		42	1	2	1	
				minutus	42	1	2	1	1
				spatulocrenatus	42	1	2	1	2
	Cyclopoida				42	2			
		Cyclopidae			42	2	1		
			Cyclops		42	2	1	1	
				vernalis	42	2	1	1	1
				scutifer	42	2	1	1	2

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Eucyclops		42	2	1	2	
				agilis	42	2	1	2	1
			Mesocyclops		42	2	1	3	
				edax	42	2	1	3	1
			Macrocyclops		42	2	1	4	
				albidus	42	2	1	4	1
			Tropocyclops		42	2	1	5	
				prasinus	42	2	1	5	1
		Ergasilidae			42	2	2		
			Ergasilus		42	2	2	1	

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
	Harpacticoida				42	3			
Branchiopoda					45				
	Cladocera				45	1			
		Sididae			45	1	1		
			Latona		45	1	1	1	
				setifera	45	1	1	1	1
			Sida		45	1	1	2	
				crystallina	45	1	1	2	1
			Diaphanosoma		45	1	1	3	
				birgei= brachyurum	45	1	1	3	1
		Holopedidae			45	1	2		
			Holopedium		45	1	2	1	
				gibberum	45	1	2	1	1

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Macrothricidae			45	1	3		
			Acantholeberis		45	1	3	1	
				curvirostris	45	1	3	1	1
			Ilyocryptus		45	1	3	2	
				spinifer	45	1	3	2	1
			Ophryoxus		45	1	3	3	
				gracilis	45	1	3	3	1
			Streblocerus		45	1	3	4	
				serricaudatus	45	1	3	4	1
			Lathonura		45	1	3	5	
				rectirostris	45	1	3	5	1

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Parophryoxus		45	1	3	6	
				tubulatus	45	1	3	6	1
		Daphnidae			45	1	4		
			Ceriodaphnia		45	1	4	1	
				lacustris	45	1	4	1	1
				reticulata	45	1	4	1	2
			Daphnia		45	1	4	2	
				catawba	45	1	4	2	1
				dubia	45	1	4	2	2
			Simocephalus		45	1	4	3	
				exspinosus	45	1	4	3	1
				serralutus	45	1	4	3	2
				vetulus	45	1	4	3	3
		Bosminidae			45	1	5		
			Bosmina		45	1	5	1	
				longirostris	45	1	5	1	1

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Eubosmina		45	1	5	2	
				longispina	45	1	5	2	1
		Leptodoridae			45	1	6		
			Leptodora		45	1	6	1	
				kindti	45	1	6	1	1
		Polyphemidae			45	1	7		
			Polyphemus		45	1	7	1	
				pediculus	45	1	7	1	1
		Chydoridae			45	1	8		
			Acroperus		45	1	8	1	
				harpae	45	1	8	1	1
			Alona		45	1	8	2	
				affinis	45	1	8	2	1
				costata	45	1	8	2	2
				guttata	45	1	8	2	3
				intermedia	45	1	8	2	4
				rustica	45	1	8	2	5

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Alonella		45	1	8	3	
				exisa	45	1	8	3	1
				nana	45	1	8	3	2
			Anchistropus		45	1	8	4	
				minor	45	1	8	4	1
			Chydorus		45	1	8	5	
				bicornutus	45	1	8	5	1
				brevilabris	45	1	8	5	2
				faviformis	45	1	8	5	3
				piger	45	1	8	5	4
				sphaericus	45	1	8	5	5
			Disparalona		45	1	8	6	
				acutirostris	45	1	8	6	1
			Graptoleberis		45	1	8	7	
				testudinaria	45	1	8	7	1

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Rhynchotalona		45	1	8	8	
				falcata	45	1	8	8	1
			Alonopsis		45	1	8	9	
				americana	45	1	8	9	1
Ostracoda					50				
	Podocopa				50	1			
Malocostraca					55				
	Isopoda				55	1			
	Amphipoda				55	2			
		Talitridae			55	2	1		
			Hyallella		55	2	1	1	
				azteca	55	2	1	1	1

Crustacea

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
		Gammaridae			55 2 2
			Crangonyx		55 2 2 1

Myriapoda

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Chilopoda					56				
	Lithobiomorpha				56	1			
Symphyla					57				
Diplopoda					58				
Pauropoda					59				

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Insecta					60				
	Ephemeroptera				60	1			
		Siphlonuridae			60	1	1		
			Ameletus		60	1	1	1	
			Siphlonurus		60	1	1	2	
				alternatus	60	1	1	2	1
				quebecensis	60	1	1	2	2
		Baetidae			60	1	2		
			Baetis		60	1	2	1	
				flavistriga	60	1	2	1	1
				macdunnoughi	60	1	2	1	2
				pygmaeus	60	1	2	1	3
				tricaudatus	60	1	2	1	4
			Callibaetis		60	1	2	2	
				skokianus	60	1	2	2	1
			Centroptilum		60	1	2	3	
				convexum	60	1	2	3	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Heptageniidae			60	1	3		
			Epeorus		60	1	3	1	
				pleuralis	60	1	3	1	1
			Heptagenia		60	1	3	2	
				pulla	60	1	3	2	1
				hebe	60	1	3	2	2
			Rhithrogena		60	1	3	3	
				undulata	60	1	3	3	1
			Stenonema		60	1	3	4	
				femoratum	60	1	3	4	1
				vicarium	60	1	3	4	2
		Leptophlebiidae			60	1	4		
			Habrophlebia		60	1	4	1	
				vibrans	60	1	4	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Leptophlebia		60	1	4	2	
				cupida	60	1	4	2	1
			Paraleptophlebia		60	1	4	3	
				adoptiva	60	1	4	3	1
				debilis	60	1	4	3	2
		Ephemerellidae			60	1	5		
			Drunella		60	1	5	1	
				cornuta	60	1	5	1	1
			Ephemerella		60	1	5	2	
				aurivillii	60	1	5	2	1
				subvaria	60	1	5	2	2
			Eurylophella		60	1	5	3	
				funeralis	60	1	5	3	1
				prudentalis	60	1	5	3	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Tricorythidae			60	1	6		
			Tricorythodes		60	1	6	1	
				atratus	60	1	6	1	1
		Caenidae			60	1	7		
			Caenis		60	1	7	1	
				simulans	60	1	7	1	1
		Ephemeridae			60	1	8		
			Hexagenia		60	1	8	1	
				limbata	60	1	8	1	1
				rigida	60	1	8	1	2
	Odonata				60	2			
	Zygoptera				60	3			
		Calopterygidae			60	3	1		
			Calopteryx		60	3	1	1	
				aequabilis	60	3	1	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Lestidae			60	3	2		
			Lestes		60	3	2	1	
				disjunctus	60	3	2	1	1
		Coenagriidae			60	3	3		
			Nehalennia		60	3	3	1	
				irene	60	3	3	1	1
			Coenagrion		60	3	3	2	
				resolutum	60	3	3	2	1
				interrogatum	60	3	3	2	2
			Enallagma		60	3	3	3	
				boreale	60	3	3	3	1
				civile	60	3	3	3	2
				cyathigerum	60	3	3	3	3
				ebrium	60	3	3	3	4
			Ischnura		60	3	3	4	
				posita	60	3	3	4	1
				verticalis	60	3	3	4	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Anisoptera				60	4			
		Aeshnidae			60	4	1		
			Aeshna		60	4	1	1	
				canadensis	60	4	1	1	1
				eremita	60	4	1	1	2
				interrupta	60	4	1	1	3
				juncea	60	4	1	1	4
				septentrionalis	60	4	1	1	5
				sitchensis	60	4	1	1	6
				subarctica	60	4	1	1	7
				umbrosa	60	4	1	1	8
		Gomphidae			60	4	2		
			Ophiogomphus		60	4	2	1	
				colubrinus	60	4	2	1	1
		Corduliidae			60	4	3		
			Cordulia		60	4	3	1	
				shurtleffi	60	4	3	1	1
			Somatochlora		60	4	3	2	
				albicincta	60	4	3	2	1
				cingulata	60	4	3	2	2
				forcipata	60	4	3	2	3
				franklini	60	4	3	2	4
				septentrionalis	60	4	3	2	5
				walshii	60	4	3	2	6

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Libellulidae			60	4	4		
			Leucorrhinia		60	4	4	1	
				glacialis	60	4	4	1	1
				hudsonica	60	4	4	1	2
				proxima	60	4	4	1	3
			Libellula		60	4	4	2	
				quadrimaculata	60	4	4	2	1
			Pantala		60	4	4	3	
				flavescens	60	4	4	3	1
			Sympetrum		60	4	4	4	
				costiferum	60	4	4	4	1
				danae	60	4	4	4	2
				internum	60	4	4	4	3
	Plecoptera				60	5			
		Leuctridae			60	5	1		
			Leuctra		60	5	1	1	
				ferruginea	60	5	1	1	1
				truncata	60	5	1	1	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Capniidae			60	5	2		
			Allocapnia		60	5	2	1	
				minima	60	5	2	1	1
			Paracapnia		60	5	2	2	
				angulata	60	5	2	2	1
				opis	60	5	2	2	2
		Nemouridae			60	5	3		
			Nemoura		60	5	3	1	
				macdunnoughi	60	5	3	1	1
		Chloroperlidae			60	5	4		
			Alloperla		60	5	4	1	
				caudata	60	5	4	1	1
				concolor	60	5	4	1	2
				naica	60	5	4	1	3
		Perlidae			60	5	5		
			Acroneuria		60	5	5	1	
				abnormis	60	5	5	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Perlodidae			60	5	6		
			Isogenus		60	5	6	1	
				frontalis	60	5	6	1	1
			Isoperla		60	5	6	2	
				bilineata	60	5	6	2	1
				transmarina	60	5	6	2	2
		Taeniopterygidae			60	5	7		
	Hemiptera				60	6			
		Corixidae			60	6	1		
			Arctocorisa		60	6	1	1	
				convexa	60	6	1	1	1
				chanceae	60	6	1	1	2
				planifrons	60	6	1	1	3

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Callicorixa		60	6	1	2	
				audeni	60	6	1	2	1
				alaskensis	60	6	1	2	2
			Dasycorixa		60	6	1	3	
			Glaenocorisa		60	6	1	4	
				quadrata	60	6	1	4	1
			Hesperocorixa		60	6	1	5	
				minorella	60	6	1	5	1
				atopodonata	60	6	1	5	2
			Palmocorixa		60	6	1	6	
				buenoi	60	6	1	6	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Sigara		60	6	1	7	
				compressoidea	60	6	1	7	1
				conocephala	60	6	1	7	2
				decoratella	60	6	1	7	3
				dolabra	60	6	1	7	4
				macropala	60	6	1	7	5
				mathesoni	60	6	1	7	6
				penniensis	60	6	1	7	7
				signata	60	6	1	7	8
				trilineata	60	6	1	7	9
			Trichocorixa		60	6	1	8	
				sexcincta	60	6	1	8	1
				verticalis	60	6	1	8	2
		Notonectidae			60	6	2		
			Notonecta		60	6	2	1	
				insulata	60	6	2	1	1
				undulata	60	6	2	1	2
		Belostomatidae			60	6	3		
			Lethocerus		60	6	3	1	
				americanus	60	6	3	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Mesoveliidae			60	6	4		
			Mesovelia		60	6	4	1	
				mulsanti	60	6	4	1	1
		Veliidae			60	6	5		
			Microvelia		60	6	5	1	
				buenoi	60	6	5	1	1
				pulchella	60	6	5	1	2
		Gerridae			60	6	6		
			Gerris		60	6	6	1	
				buenoi	60	6	6	1	1
				comatus	60	6	6	1	2
				dissortis	60	6	6	1	3
				nyctalis	60	6	6	1	4
				remigis	60	6	6	1	5
		Saldidae			60	6	7		
			Pentacora		60	6	7	1	
				sphacelata	60	6	7	1	1
				ligata	60	6	7	1	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Salda		60	6	7	2	
				provancheri	60	6	7	2	1
				crassicornis	60	6	7	2	2
				buenoi	60	6	7	2	3
				lugubris	60	6	7	2	4
				obscura	60	6	7	2	5
			Saldula		60	6	7	3	
				nigrita	60	6	7	3	1
				opacula	60	6	7	3	2
				orbiculata	60	6	7	3	3
				pallipes-palustris	60	6	7	3	4
				saltatoria	60	6	7	3	5
				separata	60	6	7	3	6
		Reduviidae			60	6	8		
		Miridae			60	6	9		

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Neuroptera				60	7			
		Sisyridae			60	7	1		
			Climacia		60	7	1	1	
		Hemerobiidae			60	7	2		
	Coleoptera				60	8			
		Haliplidae			60	8	1		
			Haliplus		60	8	1	1	
				immaculicollis	60	8	1	1	1
				cribrarius	60	8	1	1	2
				subguttatus	60	8	1	1	3
		Dytiscidae			60	8	2		
			Liodessus		60	8	2	1	
				affinis	60	8	2	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Hygrotus		60	8	2	2	
				sayi	60	8	2	2	1
				canadensis	60	8	2	2	2
				suturalis	60	8	2	2	3
				quebecensis	60	8	2	2	4
				picatus	60	8	2	2	5
				impressopunctatus	60	8	2	2	6
				unguicularis	60	8	2	2	7
			Oreodytes		60	8	2	3	
				scitulus	60	8	2	3	1
				laevis	60	8	2	3	2
			Deronectes		60	8	2	4	
				elegans	60	8	2	4	1
				griseostriatus	60	8	2	4	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Hydroporus		60	8	2	5	
				carolinus	60	8	2	5	1
				pulcher	60	8	2	5	2
				undulatus	60	8	2	5	3
				solitarius	60	8	2	5	4
				paugus	60	8	2	5	5
				acadianus	60	8	2	5	6
				aequus	60	8	2	5	7
				rubyi	60	8	2	5	8
				brevicornis	60	8	2	5	9
				notabilis or arcticus	60	8	2	5	10
				niger	60	8	2	5	11
				signatus	60	8	2	5	12
				tristis	60	8	2	5	13
				striola	60	8	2	5	14
				badiellus	60	8	2	5	15
				criniticoxis	60	8	2	5	16
				rectus	60	8	2	5	17
				morio	60	8	2	5	18
				despectus	60	8	2	5	19

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Agabus		60	8	2	6	
				seriatus	60	8	2	6	1
				kenaiensis	60	8	2	6	2
				sharpi	60	8	2	6	3
				semipunctatus	60	8	2	6	4
				arcticus	60	8	2	6	5
				punctulatus	60	8	2	6	6
				anthracinus	60	8	2	6	7
				ambiguus	60	8	2	6	8
				leptapsis	60	8	2	6	9
				infuscatus	60	8	2	6	10
				confinus	60	8	2	6	11
				erichsoni	60	8	2	6	12
				phaeopterus	60	8	2	6	13
				congener	60	8	2	6	14
			Ilybius		60	8	2	7	
				angustior	60	8	2	7	1
				discedens	60	8	2	7	2
				pleuriticus	60	8	2	7	3
				biguttulus	60	8	2	7	4
				subaeneus	60	8	2	7	5
			Copelatus		60	8	2	8	
				glyphicus	60	8	2	8	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Rhantus		60	8	2	9	
				binotatus	60	8	2	9	1
				wallisi	60	8	2	9	2
				suturellus	60	8	2	9	3
			Colymbetes		60	8	2	10	
				paykulli	60	8	2	10	1
				dolobratus	60	8	2	10	2
			Neoscutopterus		60	8	2	11	
				angustus	60	8	2	11	1
			Graphoderus		60	8	2	12	
				liberus	60	8	2	12	1
				perplexus	60	8	2	12	2
			Acilius		60	8	2	13	
				semisulcatus	60	8	2	13	1
				fraternus	60	8	2	13	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Dytiscus		60	8	2	14	
				harrisii	60	8	2	14	1
				dauricus	60	8	2	14	2
				alaskanus	60	8	2	14	3
		Gyrinidae			60	8	3		
			Gyrinus		60	8	3	1	
				affinus	60	8	3	1	1
				aquirus	60	8	3	1	2
				bifarius	60	8	3	1	3
				confinus	60	8	3	1	4
				dubius	60	8	3	1	5
				latilimbus	60	8	3	1	6
				sayi = lugens	60	8	3	1	7
				minutus	60	8	3	1	8
				opacus	60	8	3	1	9
		Hydrophilidae			60	8	4		
			Helophorus		60	8	4	1	
				lineatus	60	8	4	1	1
				sp. 1	60	8	4	1	2
				sp. 2	60	8	4	1	3
				sp. 3	60	8	4	1	4

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Laccobius		60	8	4	2	
				agilis	60	8	4	2	1
				reflexipennis	60	8	4	2	2
				spangleri	60	8	4	2	3
				sp. 1	60	8	4	2	4
			Paracymus		60	8	4	3	
				subcupreus	60	8	4	3	1
			Crenitis		60	8	4	4	
				morata	60	8	4	4	1
			Anacaena		60	8	4	5	
				limbata	60	8	4	5	1
			Enochrus		60	8	4	6	
				hamiltoni	60	8	4	6	1
				ochraceus	60	8	4	6	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Cymbiodyta		60	8	4	7	
				vindicata	60	8	4	7	1
			Hydrobius		60	8	4	8	
				fuscipes	60	8	4	8	1
		Helodidae			60	8	5		
			Helodes		60	8	5	1	
				maculicollis	60	8	5	1	1
			Cyphon		60	8	5	2	
				modestus	60	8	5	2	1
				obscurus	60	8	5	2	2
				padi	60	8	5	2	3
				variabilis	60	8	5	2	4
				sp. 1	60	8	5	2	5
				sp. 2	60	8	5	2	6
				sp. 3	60	8	5	2	7

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
		Elmidae			60	8	6		
			Oulimnius		60	8	6	1	
				latiusculus	60	8	6	1	1
			Promoresia		60	8	6	2	
				tardella	60	8	6	2	1
			Stenelmis		60	8	6	3	
				crenata	60	8	6	3	1
		Chrysomelidae			60	8	7		
			Donacia		60	8	7	1	
				proxima	60	8	7	1	1
				hirticollis	60	8	7	1	2
				pusilla	60	8	7	1	3
				emarginata	60	8	7	1	4
				fulvipes	60	8	7	1	5
				germari	60	8	7	1	6

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Galerucella		60	8	7	2	
				nymphaeae	60	8	7	2	1
		Elateridae			60	8	8		
		Curculionidae			60	8	9		
		Staphylinidae			60	8	10		
		Lathridiidae			60	8	11		
		Dryopodidae			60	8	12		

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Cantharidae			60	8	13		
		Scolytidae			60	8	14		
		Cryptophagidae			60	8	15		
		Carabidae			60	8	16		
		Dermestidae			60	8	17		
			Dermestes		60	8	17	1	

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
	Trichoptera				60	9			
		Rhyacophilidae			60	9	1		
			Rhyacophila		60	9	1	1	
				acropedes=ignorata	60	9	1	1	1
				vibox	60	9	1	1	2
				fuscula	60	9	1	1	3
				invaria	60	9	1	1	4
				carpenteri	60	9	1	1	5
				nigrita	60	9	1	1	6
				carolina	60	9	1	1	7
				melita	60	9	1	1	8
				minora	60	9	1	1	9
				torva	60	9	1	1	10
		Glossosomatidae			60	9	2		
			Glossosoma		60	9	2	1	
				nigrior	60	9	2	1	1
				intermedium	60	9	2	1	2
		Philopotamidae			60	9	3		
			Dolophilodes		60	9	3	1	
				distinctus	60	9	3	1	1
			Chimarra		60	9	3	2	
				aterrima	60	9	3	2	1
				socia	60	9	3	2	2
				obscura	60	9	3	2	3

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Wormaldia		60	9	3	3	
				moesta	60	9	3	3	1
		Polycentropodidae			60	9	4		
			Neureclipsis		60	9	4	1	
				bimaculata	60	9	4	1	1
				crepuscularis	60	9	4	1	2
			Nyctiophylax		60	9	4	2	
				affinis	60	9	4	2	1
			Polycentropus		60	9	4	3	
				aureolus	60	9	4	3	1
				weedi	60	9	4	3	2
				confusus	60	9	4	3	3
				centralis	60	9	4	3	4
				maculatus	60	9	4	3	5
				blicklei	60	9	4	3	6
				interruptus	60	9	4	3	7
				flavus	60	9	4	3	8
				remotus	60	9	4	3	9
				cinereus	60	9	4	3	10

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
		Hydropsychidae			60	9	5		
			Arctopsyche		60	9	5	1	
				ladogensis	60	9	5	1	1
			Parapsyche		60	9	5	2	
				apicalis	60	9	5	2	1
			Hydropsyche		60	9	5	3	
				betteni	60	9	5	3	1
				sparna	60	9	5	3	2
				recurvata	60	9	5	3	3
				slossonae	60	9	5	3	4
			Cheumatopsyche		60	9	5	4	
				pettiti	60	9	5	4	1
			Diplectrona		60	9	5	5	
				modesta	60	9	5	5	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
		Hydroptilidae			60	9	6		
			Hydroptila		60	9	6	1	
				metoeca	60	9	6	1	1
			Oxyethira		60	9	6	2	
				sida	60	9	6	2	1
				obtatus	60	9	6	2	2
			Agraylea		60	9	6	3	
		Psychomyiidae			60	9	7		
		Phryganeidae			60	9	8		
			Ptilostomis		60	9	8	1	
				semifasciata	60	9	8	1	1
				ocellifera	60	9	8	1	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Phryganea		60	9	8	2	
				cinerea	60	9	8	2	1
			Oligostomis		60	9	8	3	
				ocelligera	60	9	8	3	1
				pardalis	60	9	8	3	2
			Agrypnia		60	9	8	4	
				vestita	60	9	8	4	1
				deflata	60	9	8	4	2
				improba	60	9	8	4	3
				macdunnoughi	60	9	8	4	4
				colorata	60	9	8	4	5
				glacialis	60	9	8	4	6
			Banksiola		60	9	8	5	
				dossuaria	60	9	8	5	1
				smithi	60	9	8	5	2
				crotchi	60	9	8	5	3
			Fabria		60	9	8	6	
				complicata	60	9	8	6	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Limnephilidae			60	9	9		
			Apatania		60	9	9	1	
				nigra	60	9	9	1	1
				stigmatella	60	9	9	1	2
			Neophylax		60	9	9	2	
				nacatus	60	9	9	2	1
				ornatus	60	9	9	2	2
				oligius	60	9	9	2	3
				aniqua	60	9	9	2	4
			Pseudostenophylax		60	9	9	3	
				sparsus	60	9	9	3	1
			Onocosmoecus		60	9	9	4	
				quadrinotatus	60	9	9	4	1
			Platycentropus		60	9	9	5	
				indistinctus	60	9	9	5	1
				radiatus	60	9	9	5	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Nemotaulius		60	9	9	6	
				hostilis	60	9	9	6	1
			Hesperophylax		60	9	9	7	
				designatus	60	9	9	7	1
			Arctopora		60	9	9	8	
				pulchella	60	9	9	8	1
			Lenarchus		60	9	9	9	
				crassus	60	9	9	9	1
			Asynarchus		60	9	9	10	
				curtis	60	9	9	10	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Limnephilus		60	9	9	11	
				hyalinus	60	9	9	11	1
				sublunatus	60	9	9	11	2
				externus	60	9	9	11	3
				indivisus	60	9	9	11	4
				sericeus	60	9	9	11	5
				perousillus	60	9	9	11	6
				argenteus	60	9	9	11	7
				femoralis	60	9	9	11	8
				rhombicus	60	9	9	11	9
				moestus	60	9	9	11	10
				ornatus	60	9	9	11	11
				kennicotti	60	9	9	11	12
				ademus	60	9	9	11	13
				submonilifer	60	9	9	11	14
				minisculus	60	9	9	11	15
			Anobolia		60	9	9	12	
				sordida	60	9	9	12	1
				bimaculata	60	9	9	12	2
			Glyphopsyche		60	9	9	13	
				irrorata	60	9	9	13	1
			Psychoglypha		60	9	9	14	
				subborealis	60	9	9	14	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Hydatophylax		60	9	9	15	
				argus	60	9	9	15	1
			Pychnopsyche		60	9	9	16	
				guttifer	60	9	9	16	1
				scabripennis	60	9	9	16	2
				limbata	60	9	9	16	3
				lepida	60	9	9	16	4
				gentilis	60	9	9	16	5
		Odontoceridae			60	9	10		
			Psilotreta		60	9	10	1	
				frontalis	60	9	10	1	1
		Molannidae			60	9	11		
			Molanna		60	9	11	1	
				uniophila	60	9	11	1	1
				blenda	60	9	11	1	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Leptoceridae			60	9	12		
			Triaenodes		60	9	12	1	
				injusta	60	9	12	1	1
			Oecetis		60	9	12	2	
				osteni	60	9	12	2	1
				inconspicua	60	9	12	2	2
				persimilus	60	9	12	2	3
			Mystacides		60	9	12	3	
				sepulchralis	60	9	12	3	1
			Ceraclea		60	9	12	4	
				alagma	60	9	12	4	1
				annulicornis	60	9	12	4	2
				dilata	60	9	12	4	3
				transversa	60	9	12	4	4
				cancollata	60	9	12	4	5
				ruthae	60	9	12	4	6

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Lepidostomatidae			60	9	13		
			Lepidostoma		60	9	13	1	
				vernalis	60	9	13	1	1
				sackeni	60	9	13	1	2
				swannanoa	60	9	13	1	3
				togatum	60	9	13	1	4
				bryanti	60	9	13	1	5
				strophis	60	9	13	1	6
		Brachycentridae			60	9	14		
			Micrasema		60	9	14	1	
				wataga	60	9	14	1	1
				charonis	60	9	14	1	2
		Helicopsychidae			60	9	15		
			Helicopsyche		60	9	15	1	
				borealis	60	9	15	1	1
	Diptera				60	10			
		Tipulidae			60	10	1		
			Antocha		60	10	1	1	
				saxicola	60	10	1	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Cheilotrichia		60	10	1	2	
				stigmatica	60	10	1	2	1
			Dactylolabis		60	10	1	3	
				hudsonica	60	10	1	3	1
				montana	60	10	1	3	2
				supernumeraria	60	10	1	3	3
			Dicranota		60	10	1	4	
				cayuga	60	10	1	4	1
				flaveola	60	10	1	4	2
				modesta	60	10	1	4	3
			Dolichopeza		60	10	1	5	
				americana	60	10	1	5	1
				carolus	60	10	1	5	2
				venosa	60	10	1	5	3

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Erioptera		60	10	1	6	
				armata	60	10	1	6	1
				caliptera	60	10	1	6	2
				chlorophylloides	60	10	1	6	3
				cramptonella	60	10	1	6	4
				megophthalma	60	10	1	6	5
				septemtrionis	60	10	1	6	6
				villosa	60	10	1	6	7
				viridula	60	10	1	6	8
			Gonomyia		60	10	1	7	
				alexanderi	60	10	1	7	1
				mathesoni	60	10	1	7	2
				subcinerea	60	10	1	7	3
				sulphurella	60	10	1	7	4
			Hexatoma		60	10	1	8	
				brachycera	60	10	1	8	1
				spinosa	60	10	1	8	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Limnophila		60	10	1	9	
				adjusta	60	10	1	9	1
				angustula	60	10	1	9	2
				aprilina	60	10	1	9	3
				auripennis	60	10	1	9	4
				brevifurca	60	10	1	9	5
				caudifera	60	10	1	9	6
				laricicola	60	10	1	9	7
				lutea	60	10	1	9	8
				rufibasis	60	10	1	9	9
				subcostata	60	10	1	9	10
				terraenovae	60	10	1	9	11
			Limonia		60	10	1	10	
				annulata	60	10	1	10	1
				annulus	60	10	1	10	2
				brevivena	60	10	1	10	3
				canadensis	60	10	1	10	4
				defuncta	60	10	1	10	5
				distincta	60	10	1	10	6
				fusca	60	10	1	10	7
				globithorax	60	10	1	10	8
				haeretica	60	10	1	10	9
				halterata	60	10	1	10	10
				hudsonica	60	10	1	10	11
				immodestoides	60	10	1	10	12
				indigena	60	10	1	10	13
				lecontei	60	10	1	10	14
				liberta	60	10	1	10	15
				morioides	60	10	1	10	16
				profunda	60	10	1	10	17
				rostrata	60	10	1	10	18
				sphagnicola	60	10	1	10	19
				terraenovae	60	10	1	10	20

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Liogma		60	10	1	11	
				nodicornis	60	10	1	11	1
			Molophilus		60	10	1	12	
				hirtipennis	60	10	1	12	1
				pubipennis	60	10	1	12	2
				quadrispinosus	60	10	1	12	3
			Nephrotoma		60	10	1	13	
				vittula	60	10	1	13	1
			Ormosia		60	10	1	14	
				bilineata	60	10	1	14	1
				dentifera	60	10	1	14	2
				manicata	60	10	1	14	3
				megacera	60	10	1	14	4
				nigripila	60	10	1	14	5
				nimbipennis	60	10	1	14	6
				notmani	60	10	1	14	7
				rubella	60	10	1	14	8
			Paradelphomyia		60	10	1	15	
				minuta	60	10	1	15	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Pedicia		60	10	1	16	
				albivitta	60	10	1	16	1
				calcar	60	10	1	16	2
				contermina	60	10	1	16	3
				inconstans	60	10	1	16	4
				margarita	60	10	1	16	5
				paludicola	60	10	1	16	6
				vernalis	60	10	1	16	7
			Phalocrocera		60	10	1	17	
				tipulina	60	10	1	17	1
			Prolimnophila		60	10	1	18	
				areolata	60	10	1	18	1
			Pseudolimnophila		60	10	1	19	
				contempta	60	10	1	19	1
				inornata	60	10	1	19	2
			Rhabdomastix		60	10	1	20	
				flava	60	10	1	20	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
			Shannonomyia		60 10 1 21
				lenta	60 10 1 21 1
			Tasiocera		60 10 1 22
				ursina	60 10 1 22 1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	 00	 00	 00	 00
			Tipula		60	10	1	23	
				abdominalis	60	10	1	23	1
				appendiculata	60	10	1	23	2
				caloptera	60	10	1	23	3
				cayuga	60	10	1	23	4
				entomophthorae	60	10	1	23	5
				footeana	60	10	1	23	6
				fultonensis	60	10	1	23	7
				hermannia	60	10	1	23	8
				illustris	60	10	1	23	9
				iroquois	60	10	1	23	10
				macrolabis	60	10	1	23	11
				mainensis	60	10	1	23	12
				noveboracensis	60	10	1	23	13
				oropezoides	60	10	1	23	14
				parshleyi	60	10	1	23	15
				pendulifera	60	10	1	23	16
				phoroctenia	60	10	1	23	17
				resurgens	60	10	1	23	18
				sayi	60	10	1	23	19
				senega	60	10	1	23	20
				serta	60	10	1	23	21
				spenceriana	60	10	1	23	22
				strepens	60	10	1	23	23
				subtennuicornis	60	10	1	23	24
				tephrocephala	60	10	1	23	25
				ternaria	60	10	1	23	26
				triplex	60	10	1	23	27
				trivittata	60	10	1	23	28
				valida	60	10	1	23	29
				vicina	60	10	1	23	30
				youngi	60	10	1	23	31

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Ptychopteridae			60	10	2		
			Bittacomorpha		60	10	2	1	
				clavipes	60	10	2	1	1
		Blephariceridae			60	10	3		
			Blepharicera		60	10	3	1	
				tenuipes	60	10	3	1	1
				sp. 1	60	10	3	1	2
		Dixidae			60	10	4		
			Dixa		60	10	4	1	
			Dixella		60	10	4	2	
		Chaoboridae			60	10	5		
			Chaoborus		60	10	5	1	
				americanus	60	10	5	1	1
				trivittatus	60	10	5	1	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Eurocorethra		60	10	5	2	
				underwoodi	60	10	5	2	1
		Culicidae			60	10	6		
			Aedes		60	10	6	1	
				abserratus	60	10	6	1	1
				atropalpus	60	10	6	1	2
				canadensis	60	10	6	1	3
				cantator	60	10	6	1	4
				cinereus	60	10	6	1	5
				communis	60	10	6	1	6
				decticus	60	10	6	1	7
				diantaeus	60	10	6	1	8
				excrucians	60	10	6	1	9
				fitchii	60	10	6	1	10
				hexodontus	60	10	6	1	11
				implicatus	60	10	6	1	12
				intrudens	60	10	6	1	13
				nigripes	60	10	6	1	14
				pullatus	60	10	6	1	15
				punctor	60	10	6	1	16
				stimulans	60	10	6	1	17
			Culiseta		60	10	6	2	
				impatiens	60	10	6	2	1
				morsitans	60	10	6	2	2

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Wyeomyia		60	10	6	3	
				smithii	60	10	6	3	1
		Ceratopogonidae (=Heleidae)			60	10	7		
			Culicoides		60	10	7	1	
				canadensis	60	10	7	1	1
				crepuscularis	60	10	7	1	2
				downesi	60	10	7	1	3
				denticulatus	60	10	7	1	4
				jamnbacki	60	10	7	1	5
				piliferus	60	10	7	1	6
				sanguisuga	60	10	7	1	7
				spagnumensis	60	10	7	1	8
				stilobezzioides	60	10	7	1	9
			Dasyhela		60	10	7	2	
			Palpomyia		60	10	7	3	

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Chironomidae			60	10	8		
			Brillia		60	10	8	1	
			Cardiocladius		60	10	8	2	
			Chasmatonotus		60	10	8	3	
			Chironomus		60	10	8	4	
			Clinotanypus		60	10	8	5	
			Cricotopus		60	10	8	6	

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
			Cryptochironomus		60 10 8 7
			Diamesa		60 10 8 8
			Dicrotendipes		60 10 8 9
			Endochironomus		60 10 8 10
			Eukiefferiella		60 10 8 11
			Glyptotendipes		60 10 8 12

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
			Heterotanytarsus		60 10 8 13
			Heterotrissocladius		60 10 8 14
			Larsia		60 10 8 15
			Metriocnemus		60 10 8 16
			Micropsectra		60 10 8 17
			Microtendipes		60 10 8 18

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Monopelopia		60	10	8	19	
			Natarsia		60	10	8	20	
			Nanocladius		60	10	8	21	
			Nilotanypus		60	10	8	22	
			Nilothauma		60	10	8	23	
			Pagastia		60	10	8	24	

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
			Parachironomus		60 10 8 25
			Parakiefferiella		60 10 8 26
			Paraphaenocladius		60 10 8 27
			Paratendipes		60 10 8 28
			Phaenopsectra		60 10 8 29
			Polypedilum		60 10 8 30

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Potthastia		60	10	8	31	
			Procladius		60	10	8	32	
			Psectrocladius		60	10	8	33	
			Rheocricotopus		60	10	8	34	
			Rheotanytarsus		60	10	8	35	
			Tanytarsus		60	10	8	36	

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
			Thienemanniella		60 10 8 37
			Thienemannimyia		60 10 8 38
			Tribelos		60 10 8 39
			Trissopelopia		60 10 8 40
			Zavrelimyia		60 10 8 41

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Simuliidae			60	10	9		
			Prosimulium		60	10	9	1	
				pleurale	60	10	9	1	1
				mixtum	60	10	9	1	2
				mysticum	60	10	9	1	3
			Stegopterna		60	10	9	2	
				mutata	60	10	9	2	1
			Cnephia		60	10	9	3	
				ornithophilia	60	10	9	3	1
			Eusimulium		60	10	9	4	
				aureum	60	10	9	4	1
				croxtoni	60	10	9	4	2
				excisum	60	10	9	4	3
				euryadminiculum	60	10	9	4	4
				furculatum	60	10	9	4	5
				gouldingi	60	10	9	4	6
				pugetense	60	10	9	4	7
				quebecense	60	10	9	4	8
				vernum	60	10	9	4	9
				congareenarum	60	10	9	4	10

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Simulium		60	10	9	5	
				corbis	60	10	9	5	1
				decorum	60	10	9	5	2
				longistylatum	60	10	9	5	3
				rugglesi	60	10	9	5	4
				tuberosum	60	10	9	5	5
				venustum	60	10	9	5	6
				verecundum	60	10	9	5	7
				vittatum	60	10	9	5	8
		Stratiomyidae			60	10	10		
			Beris		60	10	10	1	
				annulifera	60	10	10	1	1
			Stratiomyia		60	10	10	2	
		Tabanidae			60	10	11		
			Atylotus		60	10	11	1	
				pemeticus	60	10	11	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Chrysops		60	10	11	2	
				ater	60	10	11	2	1
				excitans	60	10	11	2	2
				frigidus	60	10	11	2	3
				furcatus	60	10	11	2	4
				mitis	60	10	11	2	5
				nigripes	60	10	11	2	6
				sordidus	60	10	11	2	7
				zinzalus	60	10	11	2	8
			Hybomitra		60	10	11	3	
				affinis	60	10	11	3	1
				arpadi	60	10	11	3	2
				aurilimbus	60	10	11	3	3
				brennani	60	10	11	3	4
				frontalis	60	10	11	3	5
				longiglossa	60	10	11	3	6
				lurida	60	10	11	3	7
				metabola	60	10	11	3	8
				minuscula	60	10	11	3	9
				zonalis	60	10	11	3	10
			Tabanus		60	10	11	4	
				vivax	60	10	11	4	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Empididae			60	10	12		
			Hemerodromia		60	10	12	1	
			Hilara		60	10	12	2	
				tristis	60	10	12	2	1
			Neoplasta		60	10	12	3	
			Rhamphomyia		60	10	12	4	
				valga	60	10	12	4	1
				virgata	60	10	12	4	2
		Dolichopodidae			60	10	13		
			Dolichopus		60	10	13	1	
				bolsteri	60	10	13	1	1
				genualis	60	10	13	1	2
				melanocerus	60	10	13	1	3
				plumipes	60	10	13	1	4

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Syrphidae			60	10	14		
			Eristalis		60	10	14	1	
				anthophorinus	60	10	14	1	1
				arbustorum	60	10	14	1	2
				bardus	60	10	14	1	3
				inornatus	60	10	14	1	4
				obscurus	60	10	14	1	5
				tenax	60	10	14	1	6
			Sericomyia		60	10	14	2	
				bifasciata	60	10	14	2	1
				chrysotoxoides	60	10	14	2	2
				militaris	60	10	14	2	3
				sexfasciata	60	10	14	2	4
				transversa	60	10	14	2	5
		Coelopidae			60	10	15		
			Coelopa		60	10	15	1	
				frigida	60	10	15	1	1
		Sciomyzidae			60	10	16		
			Dictya		60	10	16	1	
				umbroides	60	10	16	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	 00	 00	 00	 00
			Sciomyza		60	10	16	2	
				dryomyzina	60	10	16	2	1
			Sepedon		60	10	16	3	
				armipes	60	10	16	3	1
				borealis	60	10	16	3	2
				lignator	60	10	16	3	3
			Tetanocera		60	10	16	4	
				ferruginea	60	10	16	4	1
				mesopora	60	10	16	4	2
				nanciae	60	10	16	4	3
				oxia	60	10	16	4	4
				plebja	60	10	16	4	5
				robusta	60	10	16	4	6
				rotundicornis	60	10	16	4	7
				unicolor	60	10	16	4	8
				valida	60	10	16	4	9
				vicina	60	10	16	4	10
		Ephydridae			60	10	17		
			Cirrula		60	10	17	1	
				gigantea	60	10	17	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Ephydra		60	10	17	2	
				obscuripes	60	10	17	2	1
			Neoscatella		60	10	17	3	
				setosa	60	10	17	3	1
		Sarcophadidae			60	10	18		
			Blaesoxipha		60	10	18	1	
				fletcheri	60	10	18	1	1
		Anthomyiidae			60	10	19		
			Cordilura		60	10	19	1	
				confusca	60	10	19	1	1
				latifrons	60	10	19	1	2
		Muscidae			60	10	20		
			Lispocephala		60	10	20	1	
				alma	60	10	20	1	1

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Phaonia		60	10	20	2	
				monticola	60	10	20	2	1
				serva	60	10	20	2	2
			Spilogona		60	10	20	3	
				setinervis	60	10	20	3	1
		Cecidomyiidae			60	10	21		
		Mycetophilidae			60	10	22		
		Bibionidae			60	10	23		

Insecta
Orders Commonly Found in Aquatic Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
		Phoridae			60 10 24
		Sciaridae			60 10 25
		Anthomyzidae			60 10 26
		Drosophilidae			60 10 27

Insecta
Orders Rare or Typically Found in Terrestrial Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
	Protura				60 20
	Collembola				60 21
		Entomobryidae			60 21 1
		Poduridae			60 21 2
		Isotomidae			60 21 3
		Sminthuridae			60 21 4

Insecta
Orders Rare or Typically Found in Terrestrial Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
	Diplura				60 22
	Thysanura				60 23
	Microcoryphia				60 24
	Dermaptera				60 29
	Orthoptera				60 30

Insecta
Orders Rare or Typically Found in Terrestrial Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
	Homoptera				60 31
		Cercopidae			60 31 1
		Aphidae			60 31 2
		Fulgoridae			60 31 3
		Cicadellidae			60 31 4
		Psyllidae			60 31 5

Insecta
Orders Rare or Typically Found in Terrestrial Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
	Psocoptera				60 33
	Phthiraptera (incl. Mallophaga and Anoplura)				60 35
	Thysanoptera				60 38
		Phloeothripidae			60 38 1

Insecta
Orders Rare or Typically Found in Terrestrial Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Megaloptera				60	40			
	Siphonaptera				60	41			
	Hymenoptera				60	43			
		Formicidae (ants)			60	43	1		
		Apoideae** (bees)			60	43	2		
		Tenthridoidea** (sawflies)			60	43	3		
		Parasitica** (parasitic wasps)			60	43	4		
		Vespoidea* (other wasps)			60	43	5		

---

* Superfamily
** Artificial designation

Insecta
Orders Rare or Typically Found in Terrestrial Habitats

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Lepidoptera				60	45			
		Pyralidae			60	45	1		
			Munroessa		60	45	1	1	
				icciusalis	60	45	1	1	1
			Parapoynx		60	45	1	2	
				maculalis	60	45	1	2	1
			Parargyractis		60	45	1	3	
		Noctuidae			60	45	2		
			Bellura		60	45	2	1	
				diffusa	60	45	2	1	1
		Tortricidae			60	45	3		
		Geometridae			60	45	4		

Pisces

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
Pisces					63				
	Anguilliformes				63	1			
		Anguillidae			63	1	1		
			Anguilla		63	1	1	1	
				rostrata	63	1	1	1	1
	Gasterosteiformes				63	2			
		Gasterosteidae			63	2	1		
			Gasterosteus		63	2	1	1	
				aculeatus	63	2	1	1	1
				wheatlandi	63	2	1	1	2
			Pungitius		63	2	1	2	
				pungitius	63	2	1	2	1
			Apeltes		63	2	1	3	
				quadracus	63	2	1	3	1
	Salmoniformes				63	3			
		Salmonidae			63	3	1		
			Salmo		63	3	1	1	
				salar	63	3	1	1	1
				gairdneri	63	3	1	1	2
				trutta	63	3	1	1	3

Pisces

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00	00	00	00	00
			Salvelinus		63	3	1	2	
				fontinalis	63	3	1	2	1
				alpinus	63	3	1	2	2
				namaycush	63	3	1	2	3
			Coregonus		63	3	1	3	
				clupeaformis	63	3	1	3	1
			Prosopium		63	3	1	4	
				cylindraceum	63	3	1	4	1
			Oncorhynchus		63	3	1	5	
				gorbuscha	63	3	1	5	1
		Osmeridae			63	3	2		
			Osmerus		63	3	2	1	
				mordax	63	3	2	1	1

Pisces

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Esocidae			63	3	3		
			Esox		63	3	3	1	
				lucius	63	3	3	1	1
	Petromyzontiformes				63	4			
		Petromyzontidae			63	4	1		
			Petromyzon		63	4	1	1	
				marinus	63	4	1	1	1
	Acipenseriformes				63	5			
		Acipenseridae			63	5	1		
			Acipenser		63	5	1	1	
				oxyrhynchus	63	5	1	1	1
	Clupeiformes				63	6			
		Clupeidae			63	6	1		
			Alosa		63	6	1	1	
				pseudoharengus	63	6	1	1	1
				sapidissima	63	6	1	1	2

Pisces

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Cypriniformes				63	7			
		Cyprinidae			63	7	1		
			Couesius		63	7	1	1	
				plumbeus	63	7	1	1	1
			Rhinichthys		63	7	1	2	
				cataractae	63	7	1	2	1
		Catostomidae			63	7	2		
			Catostomus		63	7	2	1	
				catostomus	63	7	2	1	1
				commersoni	63	7	2	1	2
	Gadiformes				63	8			
		Gadidae			63	8	1		
			Microgadus		63	8	1	1	
				tomcod	63	8	1	1	1
			Lota		63	8	1	2	
				lota	63	8	1	2	1

Pisces

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Atheriniformes				63	9			
		Cyprinodontidae			63	9	1		
			Fundulus		63	9	1	1	
				diaphanus	63	9	1	1	1
				heteroclitus	63	9	1	1	2
	Perciformes				63	10			
		Ammodytidae			63	10	1		
			Ammodytes		63	10	1	1	
				americanus	63	10	1	1	1
		Cottidae			63	10	2		
			Cottus		63	10	2	1	
				bairdi	63	10	2	1	1
				cognatus	63	10	2	1	2
	Pleuronectiformes				63	11			
		Pleuronectidae			63	11	1		
			Pseudopleuronectes		63	11	1	1	
				americanus	63	11	1	1	1

Pisces

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
		Bothidae			63 11 2
			Scophthalmus		63 11 2 1
				aquosus	63 11 2 1 1

Amphibia

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
Amphibia					66
	Caudata				66 1
	Anura				66 2

Reptilia

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
					69
Reptilia					

Aves

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
Aves					72

Mammalia

Class Subclass or Phylum	Order or Suborder	Family	Genus	Species	Code Fields 00 00 00 00 00
Mammalia					75
	Insectivora				75 1
		Soricidae			75 1 1
	Rodentia				75 2
		Cricetidae			75 2 1

Miscellaneous Codes
Applicable to Fish Stomach Content Analyses

Food Item	Code Fields				
	00	00	00	00	00
Unidentified material	98	1			
Animal matter	98	2			
Plant matter	98	3			
Invertebrate matter	98	4			
Detritus	98	5			
Annelida	98	6			
Zooplankton	98	7			
Plankton	98	8			
Alga	98	9			
Parasite	98	10			
Mollusc	98	11			
Sand	98	12			
Stone	98	13			
Offal	98	14			

Number/
Numéro

2

Computer Code for Freshwater Life Forms of Newfoundland: Part 2 — Plants

P.M. Ryan

Fisheries Research Branch
Department of Fisheries and Oceans
P.O. Box 5667
St. John's, Newfoundland A1C 5X1

December 1983

Canadian Manuscript Report of
Fisheries and Aquatic Sciences
No. 1729

Canadian Manuscript Report of Fisheries and Aquatic Sciences

These reports contain scientific and technical information that represents an important contribution to existing knowledge but which for some reason may not be appropriate for primary scientific (i.e. *Journal*) publication. They differ from Technical Reports in terms of subject scope and potential audience: Manuscript Reports deal primarily with national or regional problems and distribution is generally restricted to institutions or individuals located in particular regions of Canada. No restriction is placed on subject matter and the series reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries management, technology and development, ocean sciences, and aquatic environments relevant to Canada.

Manuscript Reports may be cited as full publications. The correct citation appears above the abstract of each report. Each report will be abstracted by *Aquatic Sciences and Fisheries Abstracts* and will be indexed annually in the Department's index to scientific and technical publications.

Numbers 1-900 in this series were issued as Manuscript Reports (Biological Series) of the Biological Board of Canada, and subsequent to 1937 when the name of the Board was changed by Act of Parliament, as Manuscript Reports (Biological Series) of the Fisheries Research Board of Canada. Numbers 901-1425 were issued as Manuscript Reports of the Fisheries Research Board of Canada. Numbers 1426-1550 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Manuscript Reports. The current series name was changed with report number 1551.

Details on the availability of Manuscript Reports in hard copy may be obtained from the issuing establishment indicated on the front cover.

Rapport manuscrit canadien des sciences halieutiques et aquatiques

Ces rapports contiennent des renseignements scientifiques et techniques qui constituent une contribution importante aux connaissances actuelles mais qui, pour une raison ou pour une autre, ne semblent pas appropriés pour la publication dans un journal scientifique. Ils se distinguent des Rapports techniques par la portée du sujet et le lecteur visé; en effet, ils s'attachent principalement à des problèmes d'ordre national ou régional et la distribution en est généralement limitée aux organismes et aux personnes de régions particulières du Canada. Il n'y a aucune restriction quant au sujet; de fait, la série reflète la vaste gamme des intérêts et des politiques du Ministère des Pêches et des Océans, notamment gestion des pêches; techniques et développement, sciences océaniques et environnements aquatiques, au Canada.

Les Manuscrits peuvent être considérés comme des publications complètes. Le titre exact paraît au haut du résumé de chaque rapport, qui sera publié dans la revue *Aquatic Sciences and Fisheries Abstracts* et qui figuera dans l'index annuel des publications scientifiques et techniques du Ministère.

Les numéros de 1 à 900 de cette série ont été publiés à titre de manuscrits (Série biologique) de l'Office de biologie du Canada, et après le changement de la désignation de cet organisme par décret du Parlement, en 1937, ont été classés en tant que manuscrits (Série biologique) de l'Office des recherches sur les pêcheries du Canada. Les numéros allant de 901 à 1425 ont été publiés à titre de manuscrits de l'Office des recherches sur les pêcheries du Canada. Les numéros 1426 à 1550 ont été publiés à titre de Rapport manuscrits du Service des pêches et de la mer, Ministère des Pêches et de l'Environnement. Le nom de la série a été changé à partir du rapport numéro 1551.

La page couverture porte le nom de l'établissement auteur où l'on peut se procurer les rapports sous couverture cartonnée.

Canadian Manuscript Report of
Fisheries and Aquatic Sciences 1729

December 1983

COMPUTER CODE FOR FRESHWATER LIFE FORMS OF NEWFOUNDLAND: PART 2 - PLANTS

by

P. M. Ryan

Fisheries Research Branch
Department of Fisheries and Oceans
P.O. Box 5667
St. John's, Newfoundland   A1C 5X1

This is the eighth Manuscript Report from
Fisheries Research Branch, St. John's, Newfoundland.

PREFACE

This is Part 2 of two parts. The first part contains codes for animals and fish stomach content items.

(c)Minister of Supply and Services Canada 1983

Cat. No. Fs 97-4/1729 ISSN 0706-6473

Correct citation for this publication:

Ryan, P. M. 1983. Computer code for freshwater life forms of Newfoundland: Part 2 - Plants. Can. MS Rep. Fish. Aquat. Sci. 1729: iv + 122 p.

CONTENTS

Page

Preface ii
Abstract iv
Introduction 1
Materials and methods 1
Results and discussion 2
Acknowledgments 3
References 4
Appendix 1: Scientific names of plants based on the last two coded fields and corresponding codes ordered by code sequence 7
Appendix 2: List of taxa other than species and corresponding codes ordered alphabetically by taxa 27
Appendix 3: Systematically structured list of taxa and corresponding codes ordered by code sequence 39
    Slime molds 39
    Fungi 40
    Bacteria and Viruses 41
    Liverworts, Hornworts, and Mosses 42
    Club mosses and horsetails 43
    True ferns, preferns and seed ferns 44
    Conifers 45
    Flowering plants 48
    Blue-green algae 58
    Green algae (including desmids and stoneworts) 65
    Desmids (green algae) 80
    Stoneworts (green algae) 86
    Euglenids 87
    Yellow-green algae 89
    Golden algae 92
    Diatoms 102
    Brown algae 114
    Dinoflagellates 115
    Chloromonads 117
    Cryptomonads 118
    Red algae 120
    Extraterrestrials 122

ABSTRACT

Ryan, P. M. 1983 Computer code for freshwater life forms of Newfoundland:
Part 2 - Plants. Can. MS Rep. Fish. Aquat. Sci. 1729: iv + 122 p.

A systematically structured, ten-digit, computer code for use in the study of the freshwater plants of Newfoundland was created. The code consists of two digits in each of five fields, with each field corresponding to a taxonomic rank. Nine hundred and nineteen plant taxa were assigned codes. These plant taxa consist of: 21 divisions or classes; 53 subdivisions, classes, or orders; 151 orders, suborders, or families; 241 genera; and 453 species which have been or might be recorded during freshwater investigations in Newfoundland.

Key words: freshwater plants, Newfoundland, algae, systematics, taxonomy, computer code, species code

RÉSUMÉ

Ryan, P. M. 1983. Computer code for freshwater life forms of Newfoundland:
Part 2 - Plants. Can. MS Rep. Fish. Aquat. Sci. 1729: iv + 122 p.

Un code informatique à dix chiffres systématiquement structuré a été créé pour l'étude des plantes d'eau douce de Terre-Neuve. Le code consiste en deux chiffres dan chacun des cinq domaines, chaque domaine correspondant à un rang taxonomique. Des codes ont été assignés à 919 taxons de plantes. Ces taxons de plantes comprennent: 21 divisions ou classes; 53 subdivisions, classes ou ordres; 151 ordres, sous-ordres ou familles; 241 genres; et 453 espèces qui ont été ou pourraient être répertoriées au cours de recherches sur les eaux douces à Terre-Neuve.

Mots-clés: plantes d'eau douce, Terre-Neuve, algues, systématique, taxonomie, code informatique, code d'espèce

INTRODUCTION

This publication presents a systematically structured, ten-digit, computer code for use in the study of the freshwater plants of Newfoundland. It is a companion to the animal code presented, under separate cover, as Part 1 (Ryan 1983). Its purpose is to facilitate the rapid handling and analyses of large amounts of data obtained during aquatic studies in the Province of Newfoundland by the Department of Fisheries and Oceans and other organizations or individuals.

Originally, a computer code was required to analyze large amounts of data collected from lakes and streams at the headwaters of the Northwest Gander River as part of a long-term study. Numerous computer codes for life forms had been developed but those existing codes examined were not considered acceptable for a variety of reasons. The present code was created to meet a number of criteria. The code had to: accommodate plants, animals, and fish stomach content items; have provision for the commonly used taxonomic groupings; allow for the easy sorting of data by taxonomic group; be practical for use with various levels of specimen identification; have a simple format to minimize coding errors; and have provision for extensive and rapid modification.

The code consists of two digits (00-99) in each of five fields with the identity of a plant, to a given taxonomic group, indicated by 01-99 in one or more of the five fields. This allows for the rapid sorting and analyses of data by taxonomic group and allows for a considerable addition of taxa without alteration of the systematic structure.

As the broad applicability of the code became apparent, the number of taxa assigned codes was increased with provision for: taxa from other areas of the province; taxa found outside the province; and terrestrial taxa customarily found near water. All plants found in or near the freshwaters of Newfoundland are not included in the report. However, codes are available for the inclusion of taxa as required. All taxa included may not, as yet, have been reported from Newfoundland. However, application of the code to data from outside the province is made easier by the inclusion of such taxa.

MATERIALS AND METHODS

The first field in the code for plants was used to identify the division or class, the second field the subdivision, class or order, and the third field the order, suborder, or family. The fourth and fifth fields were used to identify the genus and species, respectively. This structuring of the code, with potential for entering the class and order in either of two fields, was done to accommodate differing taxonomic schemes encountered in practice.

Plants were assigned codes starting from the non-vascular plants (slime molds, fungi, bacteria, etc.) and ranging to the vascular plants (flowering plants) with the exception of the algae. The more frequently required algae codes were obtained from near the end of the code sequence for ease of use. A systematically structured list of taxa with their corresponding codes was prepared with spacing and unassigned codes to allow for the addition, in each copy of the report, of taxa and appropriate codes by the user, as required.

A scientific name associated with each code was entered in computer files so that data could be retrieved with associated names rather than numbers. The scientific names consist of one or two parts based on the last two coded fields and occupy a maximum of 32 characters. If a taxon is specified by digits 01-99 only in the first field (eg. plant identified only to division), only the division or class name is given. If a plant is identified beyond that level, the names corresponding to the last two fields occupied by digits 01-99 are produced. Thus, a plant identified to species has retrievable genus and species names.

As an aid to code users, all taxa, except species, were listed alphabetically with their associated codes. Thus, a user unfamiliar with order names but knowing the appropriate genus and species names could obtain most of the code for the species from the alphabetical listing of the genus and use that part of the code to obtain the full code and additional information on the taxonomic position from the systematic listing.

Systematic positions and nomenclature were obtained from a variety of sources with modification for practical application of the code. The first taxonomic separation of division or class (first field) came from Scagel et al. (1969). The second separation of subdivision, class, or order (second field) came from Scagel et al. (1969) with the addition of Sphenopsida from Fuller and Carothers (1963) and numerous algal groups from Smith (1950), Prescott (1962), and Bourrelly (1968, 1970, 1972). Further separation of plants, except algae, was based on Fassett (1957) and Britton and Brown (1970a, b, c). Further separation of algae was based on Smith (1950), Prescott (1962), Patrick and Reimer (1966, 1975), and Bourrelly (1968, 1970, 1972).

Occasionally, in the systematically structured listing of taxa, synonomous names were indicated. Only one of the synonyms was used in the list of scientific names based on the last two coded fields and the alphabetical listing of taxa.

RESULTS AND DISCUSSION

Nine hundred and nineteen taxa were included in the code for plants. These taxa consist of: 21 divisions or classes; 53 subdivisions, classes, or orders; 151 orders, suborders, or families; 241 genera; and 453 species.

Duplication of species names occurred throughout the code (eg. *Anabaena flos-aquae*, *Aphanizomenon flos-aquae*). No duplication of a genus name occurred among the plants listed. However, with both parts of the code (Part 1 - Animals, Part 2 - Plants) combined, one duplication of a genus name was encountered. *Holopedium* refers to *H. gibberum*, the zooplankter, and *H. irregulare*, the blue-green alga. No duplication of both genus and species names was encountered.

Plant taxa and their corresponding codes are presented in three arrangements in Appendices 1-3:

Appendix 1 - Scientific names of plants based on the last two coded fields and corresponding codes ordered by code sequence;

Appendix 2 - List of taxa other than species and corresponding codes ordered alphabetically by taxa; and,

Appendix 3 - Systematically structured list of taxa and corresponding codes ordered by code sequence.

It is certain that changes to the code will be required as more organizations and individuals make use of it and as the techniques for classifying organisms are advanced. Suggested changes should be referred to the Head, freshwater investigations, Fisheries Research Branch, Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland, A1C 5X1. Appropriate changes will be entered in each of the master copies of Appendices 1, 2, and 3. These changes may be added to individual copies of the report by users until the publication of a second edition of the report is required.

ACKNOWLEDGMENTS

A large number of people contributed useful advice, helpful comment, and constructive criticism throughout the making of this code. The following individuals assisted in a major way.

P. Doyle and K. Harding typed the bulk of the manuscript and its numerous revisions.

A. Chaytor, G. Somerton, R. J. Tucker, and other staff of the Statistics and Computing Section, Northwest Atlantic Fisheries Centre, assisted with the computer storage and printing of taxonomic lists and codes and with the practical testing of the code by statistical analyses.

B. Bennett, M. H. Colbo, A. Dunphy, S. Freimanis, G. V. Hurley, D. J. Larson, and M. Larson assisted in the examination of the practical application of the code with their coding of large amounts of data and resulting suggestions and comments.

S. Freimanis proofread numerous taxonomic lists and computer printouts during the development of the code.

W. J. Bruce, M. F. O'Connell, and D. A. Scruton provided lists of collected taxa for inclusion in the code.

R. J. Tucker provided frequent invaluable advice on the development of the code for practical application.

C. C. Davis, M. F. O'Connell, P. J. Scott, and G. Somerton constructively reviewed the manuscript.

REFERENCES

Bourrelly, P. 1968. Les algues d'eau douce, initiation à la systématique. Tome II: Les algues jaunes et brunes; Chrysophycées, Phéophycées, Xanthophycées et Diatomées. N. Boubée et Cie., Paris: 438 p.

1970. Les algues d'eau douce, initiation à la systématique. Tome III: Les algues bleues et rouges; Les Eugléniens, Peridiniens et Cryptomonadines. N. Boubée et Cie., Paris: 512 p.

1972. Les algues d'eau douce, initiation à la systématique. Tome I: Les algues vertes. N. Boubée et Cie., Paris: 572 p.

Britton, N. L. and Hon. A. Brown. 1970a. An illustrated flora of the northern United States and Canada. Vol. 1. 2nd ed. Dover Publ. Inc., New York: 680 p.

1970b. An illustrated flora of the northern United States and Canada. Vol. 2. 2nd ed. Dover Publ. Inc., New York: 735 p.

1970c. An illustrated flora of the northern United States and Canada. Vol. 3. 2nd ed. Dover Publ. Inc., New York: 637 p.

Fassett, N. C. 1957. A manual of aquatic plants. Univ. Wisc. Press, Wisc.: 405 p.

Fuller, H. J. and Z. B. Carothers. 1963. The plant world. 4th ed. Holt, Rinehart and Winston Ltd., New York: 564 p.

Patrick, R. and C. W. Reimer. 1966. The diatoms of the United States exclusive of Alaska and Hawaii. Vol. 1. Mon. Acad. Nat. Sci. Phil. 13: 688 p.

1975. The diatoms of the United States exclusive of Alaska and Hawaii. Vol. 2, Part 1. Mon. Acad. Nat. Sci. Phil. 13: 213 p.

Prescott, G. W. 1962. Algae of the western Great Lakes area. 2nd ed. W. C. Brown Co. Dubuque, Iowa: 977 p.

Ryan, P. M. 1983. Computer code for freshwater life forms of Newfoundland: Part 1 - Animals. Can. MS Rep. Fish. Aquat. Sci. 1729: iv+159 p.

Scagel, R. F., R. J. Bandoni, G. E. Rouse, W. B. Schofield, J. R. Stein, and T. M. C. Taylor. 1969. Plant diversity: an evolutionary approach. Wadsworth Publ. Co. Inc., Belmont, Calif.: 460 p.

Smith, G. M. 1950. The fresh-water algae of the United States. 2nd ed. McGraw-Hill Book Co., New York: 719 p.

APPENDIX II. SCIENTIFIC NAMES OF PLANTS FOUND IN THE [illegible]
[illegible] AND CORRESPONDING [illegible]

MYXOMYCOTA	[illegible]
MYXOMYCOTA MYXOMYCETES	[illegible]
MYXOMYCOTA ACRASIOMYCETES	[illegible]
MYXOMYCOTA LABYRINTHULOMYCETES	[illegible]
EUMYCOTA	[illegible]
EUMYCOTA PHYCOMYCETES	[illegible]
EUMYCOTA ASCOMYCETES	[illegible]
EUMYCOTA BASIDIOMYCETES	[illegible]
EUMYCOTA DEUTEROMYCETES	[illegible]
SCHIZOMYCOPHYTA	[illegible]
SCHIZOMYCOPHYTA SCHIZOMYCETES	[illegible]
SCHIZOMYCOPHYTA MICROTATOBIOTES	[illegible]
BRYOPHYTA	7900000000
BRYOPHYTA HEPATICAE	7901000000
BRYOPHYTA ANTHOCEROTAE	7902000000
BRYOPHYTA MUSCI	7903000000
MUSCI SPHAGNIDAE	7903010000
LYCOPHYTA	8000000000
ARTHROPHYTA	8100000000
ARTHROPHYTA SPHENOPSIDA	8101000000
SPHENOPSIDA EQUISETALES	8101010000
EQUISETALES EQUISETUM	8101010100
EQUISETUM FLUVIATILE	8101010101
PTEROPHYTA	8200000000
MICROSPERMOPHYTA	8300000000
CONIFEROPHYTA	8400000000
ANTHOPHYTA	8500000000
ANTHOPHYTA DICOTYLEDONAE	8501000000
DICOTYLEDONAE CERATOPHYLLACEAE	8501010000
CERATOPHYLLACEAE CERATOPHYLLUM	8501010100
CERATOPHYLLUM DEMERSUM	8501010101
DICOTYLEDONAE CABOMBACEAE	8501020000
CABOMBACEAE BRASENIA	8501020100
BRASENIA SCHREBERI	8501020101
DICOTYLEDONAE NYMPHAEACEAE	8501030000
NYMPHAEACEAE NYMPHAEA	8501030100
NYMPHAEA ODORATA	8501030102
NYMPHAEACEAE NUPHAR	8501030200
NUPHAR VARIEGATUM	8501030201
DICOTYLEDONAE SARRACENIACEAE	8501040000
DICOTYLEDONAE DROSERACEAE	8501050000
DICOTYLEDONAE CALLITRICHACEAE	[illegible]
CALLITRICHACEAE CALLITRICHE	[illegible]
CALLITRICHE HETEROPHYLLA	[illegible]
DICOTYLEDONAE HALORAGACEAE	[illegible]
HALORAGACEAE HIPPURIS	[illegible]
HALORAGACEAE MYRIOPHYLLUM	[illegible]
DICOTYLEDONAE LENTIBULARIACEAE	[illegible]
LENTIBULARIACEAE UTRICULARIA	[illegible]
UTRICULARIA [illegible]	[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Schofield, J. R. Stein, and [illegible] Plant diversity: an evolutionary approach. [illegible] Belmont, Calif. [illegible] p.

[illegible] 1950. The fresh-water algae of the United States. 2nd ed. [illegible] New York. 719 p.

APPENDIX 1: SCIENTIFIC NAMES OF PLANTS BASED ON THE LAST TWO CODED FIELDS AND CORRESPONDING CODES ORDERED BY CODE SEQUENCE

MYXOMYCOTA	7600000000
MYXOMYCOTA MYXOMYCETES	7601000000
MYXOMYCOTA ACRASIOMYCETES	7602000000
MYXOMYCOTA LABYRINTHULOMYCETES	7603000000
EUMYCOTA	7700000000
EUMYCOTA PHYCOMYCETES	7701000000
EUMYCOTA ASCOMYCETES	7702000000
EUMYCOTA BASIDIOMYCETES	7703000000
EUMYCOTA DEUTEROMYCETES	7704000000
SCHIZOMYCOPHYTA	7800000000
SCHIZOMYCOPHYTA SCHIZOMYCETES	7801000000
SCHIZOMYCOPHYTA MICROTATOBIOTES	7802000000
BRYOPHYTA	7900000000
BRYOPHYTA HEPATICAE	7901000000
BRYOPHYTA ANTHOCEROTAE	7902000000
BRYOPHYTA MUSCI	7903000000
MUSCI SPHAGNIDEAE	7903010000
LYCOPHYTA	8000000000
ARTHROPHYTA	8100000000
ARTHROPHYTA SPHENOPSIDA	8101000000
SPHENOPSIDA EQUISETALES	8101010000
EQUISETALES EQUISETUM	8101010100
EQUISETUM FLUVIATILE	8101010101
PTEROPHYTA	8200000000
PTERIDOSPERMOPHYTA	8300000000
CONIFEROPHYTA	8400000000
ANTHOPHYTA	8500000000
ANTHOPHYTA DICOTYLEDONAE	8501000000
DICOTYLEDONAE CERATOPHYLLACEAE	8501010000
CERATOPHYLLACEAE CERATOPHYLLUM	8501010100
CERATOPHYLLUM DEMERSUM	8501010101
DICOTYLEDONAE CABOMBACEAE	8501020000
CABOMBACEAE BRASENIA	8501020100
BRASENIA SCHREBERI	8501020101
DICOTYLEDONAE NYMPHAEACEAE	8501030000
NYMPHAEACEAE NYMPHAEA	8501030100
NYMPHAEA ODORATA	8501030101
NYMPHAEACEAE NUPHAR	8501030200
NUPHAR VARIEGATUM	8501030201
DICOTYLEDONAE SARRACENIACEAE	8501040000
DICOTYLEDONAE DROSERACEAE	8501050000
DICOTYLEDONAE CALLITRICHACEAE	8501060000
CALLITRICHACEAE CALLITRICHE	8501060100
CALLITRICHE HETEROPHYLLA	8501060101
DICOTYLEDONAE HALORAGIDACEAE	8501070000
HALORAGIDACEAE HIPPURUS	8501070100
HALORAGIDACEAE MYRIOPHYLLUM	8501070200
DICOTYLEDONAE LENTIBULARIACEAE	8501080000
LENTIBULARIACEAE UTRICULARIA	8501080100
UTRICULARIA MACRORHIZA	8501080101

DICOTYLEDONAE LOBELIACEAE	8501090000
LOBELIACEAE LOBELIA	8501090100
LOBELIA DORTMANNA	8501090101
DICOTYLEDONAE COMPOSITAE	8501100000
COMPOSITAE ASTER	8501100100
ASTER NEMORALIS	8501100101
DICOTYLEDONAE MENYANTHACEAE	8501110000
MENYANTHACEAE MENYANTHES	8501110100
MENYANTHES TRIFOLIATA	8501110101
MENYANTHACEAE NYMPHOIDES	8501110200
ANTHOPHYTA MONOCOTYLEDONAE	8502000000
MONOCOTYLEDONAE TYPHACEAE	8502010000
TYPHACEAE TYPHA	8502010100
TYPHA LATIFOLIA	8502010101
TYPHA ANGUSTIFOLIA	8502010102
MONOCOTYLEDONAE SPARGANIACEAE	8502020000
SPARGANIACEAE SPARGANIUM	8502020100
SPARGANIUM EURYCARPUM	8502020101
SPARGANIUM ANDROCLADUM	8502020102
SPARGANIUM DIVERSIFOLIUM	8502020103
SPARGANIUM ACAULE	8502020104
SPARGANIUM ANGUSTIFOLIUM	8502020105
SPARGANIUM HYPERBOREUM	8502020106
SPARGANIUM MINIMUM	8502020107
MONOCOTYLEDONAE ZANNICHELLIACEAE	8502030000
ZANNICHELLIACEAE POTAMOGETON	8502030100
POTAMOGETON NATANS	8502030101
POTAMOGETON OAKESIANUS	8502030102
POTAMOGETON EPIHYDRUS	8502030103
POTAMOGETON ALPINUS	8502030104
POTAMOGETON PERFOLIATUS	8502030105
ZANNICHELLIACEAE ZANNICHELLIA	8502030200
ZANNICHELLIA PALUSTRIS	8502030201
MONOCOTYLEDONAE NAIADACEAE	8502040000
NAIADACEAE NAIAS	8502040100
NAIAS FLEXILIS	8502040101
MONOCOTYLEDONAE SCHEUCHZERIACEAE	8502050000
SCHEUCHZERIACEAE TRIGLOCHIN	8502050100
TRIGLOCHIN PALUSTRIS	8502050101
TRIGLOCHIN MARITIMA	8502050102
SCHEUCHZERIACEAE SCHEUCHZERIA	8502050200
SCHEUCHZERIA PALUSTRIS	8502050201
MONOCOTYLEDONAE ALISMACEAE	8502060000
ALISMACEAE SAGITTARIA	8502060100
SAGITTARIA LATIFOLIA	8502060101
SAGITTARIA GRAMINEA	8502060102
MONOCOTYLEDONAE GRAMINEAE	8502070000
GRAMINEAE HOMALOCENCHRUS	8502070100
HOMALOCENCHRUS ORYZOIDES	8502070101
GRAMINEAE CALAMAGROSTIS	8502070200
CALAMAGROSTIS CANADENSIS	8502070201
GRAMINEAE CATABROSA	8502070300
CATABROSA AQUATICA	8502070301
GRAMINEAE POA	8502070400

POA TRIFLORA	8502070401
GRAMINEAE PANICULARIA	8502070500
PANICULARIA CANADENSIS	8502070501
PANICULARIA BOREALIS	8502070502
MONOCOTYLEDONAE CYPERACEAE	8502080000
CYPERACEAE ELEOCHARIS	8502080100
ELEOCHARIS PALUSTRIS	8502080101
CYPERACEAE SCIRPUS	8502080200
SCIRPUS SUBTERMINALIS	8502080201
SCIRPUS AMERICANUS	8502080202
SCIRPUS VALIDUS	8502080203
SCIRPUS OCCIDENTALIS	8502080204
SCIRPUS RUFUS	8502080205
SCIRPUS MICROCARPUS	8502080206
SCIRPUS CYPERINUS	8502080207
CYPERACEAE CAREX	8502080300
CAREX STIPATA	8502080301
CAREX ATLANTICA	8502080302
CAREX LEPTALEA	8502080303
CAREX AQUATILIS	8502080304
CAREX GYNANDRA	8502080305
CAREX CRINITA	8502080306
CAREX LACUSTRIS	8502080307
CAREX LASIOCARPA	8502080308
CAREX FLAVA	8502080309
CAREX FOLLICULATA	8502080310
CAREX RETRORSA	8502080311
CAREX HYSTRICINA	8502080312
CAREX COMOSA	8502080313
CAREX FRANKII	8502080314
CAREX INTUMESCENS	8502080315
CAREX ASA-GRAYI	8502080316
CAREX ROSTRATA	8502080317
MONOCOTYLEDONAE ARACEAE	8502090000
MONOCOTYLEDONAE LEMNACEAE	8502100000
LEMNACEAE LEMNA	8502100100
MONOCOTYLEDONAE ERIOCAULACEAE	8502110000
ERIOCAULACEAE ERIOCAULON	8502110100
ERIOCAULON SEPTANGULARE	8502110101
MONOCOTYLEDONAE JUNCACEAE	8502120000
JUNCACEAE JUNCUS	8502120100
JUNCUS EFFUSUS	8502120101
JUNCUS CONGLOMERATUS	8502120102
JUNCUS FILIFORMIS	8502120103
JUNCUS BUFONIUS	8502120104
JUNCUS DUDLEYI	8502120105
JUNCUS MILITARIS	8502120106
JUNCUS ARTICULATUS	8502120107
MONOCOTYLEDONAE MELANTHACEAE	8502130000
MONOCOTYLEDONAE LILIACEAE	8502140000
MONOCOTYLEDONAE CONVALLARIACEAE	8502150000
MONOCOTYLEDONAE IRIDACEAE	8502160000

IRIDACEAE IRIS	8502160100
IRIS VERSICOLOR	8502160101
IRIS HOOKERI	8502160102
CYANOPHYTA	8600000000
CYANOPHYTA CHROOCOCCALES	8601000000
CHROOCOCCALES CHROOCOCCACEAE	8601010000
CHROOCOCCACEAE CHROOCOCCUS	8601010100
CHROOCOCCUS LIMNETICUS	8601010101
CHROOCOCCUS PRESCOTTII	8601010102
CHROOCOCCACEAE MERISMOPEDIA	8601010200
MERISMOPEDIA ELEGANS	8601010201
MERISMOPEDIA MAJOR	8601010202
MERISMOPEDIA GLAUCA	8601010203
MERISMOPEDIA TROLLERI	8601010204
MERISMOPEDIA TENUISSIMA	8601010205
MERISMOPEDIA CONVOLUTA	8601010206
CHROOCOCCACEAE GLOEOCAPSA	8601010300
GLOEOCAPSA MAJOR	8601010301
GLOEOCAPSA PUNCTATA	8601010302
CHROOCOCCACEAE MICROCYSTIS	8601010400
MICROCYSTIS AERUGINOSA	8601010401
MICROCYSTIS FLOS-AQUAE	8601010402
MICROCYSTIS ROBUSTA	8601010403
CHROOCOCCACEAE APHANOCAPSA	8601010500
APHANOCAPSA ELACHISTA	8601010501
APHANOCAPSA PULCHRA	8601010502
CHROOCOCCACEAE EUCAPSIS	8601010600
EUCAPSIS ALPINA	8601010601
CHROOCOCCACEAE COELOSPHAERIUM	8601010700
COELOSPHAERIUM NAEGELIANUM	8601010701
CHROOCOCCACEAE DACTYLOCOCCOPSIS	8601010800
DACTYLOCOCCOPSIS ACICULARIS	8601010801
CHROOCOCCACEAE SYNECHOCOCCUS	8601010900
CHROOCOCCACEAE HOLOPEDIUM	8601011000
HOLOPEDIUM IRREGULARE	8601011001
CHROOCOCCACEAE APHANOTHECE	8601011100
APHANOTHECE CASTAGNEI	8601011101
APHANOTHECE NIDULANS	8601011102
APHANOTHECE ALASCENSE	8601011103
CHROOCOCCACEAE RHABDODERMA	8601011200
RHABDODERMA LINEARE	8601011201
RHABDODERMA SIGMOIDEA	8601011202
RHABDODERMA IRREGULARE	8601011203
CHROOCOCCACEAE GOMPHOSPHAERIA	8601011300
GOMPHOSPHAERIA LACUSTRIS	8601011301
GOMPHOSPHAERIA APONINA	8601011302
CHROOCOCCACEAE SYNECHOCYSTIS	8601011400
SYNECHOCYSTIS AQUATILIS	8601011401
CHROOCOCCACEAE GLOEOTHECE	8601011500
CHROOCOCCACEAE ENTOPHYSALIDACEAE	8601020000
ENTOPHYSALIDACEAE PARACAPSA	8601020100
CYANOPHYTA CHAMAESIPHONALES	8602000000

CHAMAESIPHONALES PLEUROCAPSACEAE	8602010000
PLEUROCAPSACEAE MYXOSARCINA	8602010100
PLEUROCAPSACEAE PLEUROCAPSA	8602010200
PLEUROCAPSA MINOR	8602010201
CHAMAESIPHONALES DERMOCARPACEAE	8602020000
CHAMAESIPHONAL CHAMAESIPHONACEAE	8602030000
CHAMAESIPHONACEAE CHAMAESIPHON	8602030100
CYANOPHYTA OSCILLATORIALES	8603000000
OSCILLATORIALES OSCILLATORIACEAE	8603010000
OSCILLATORIACEAE OSCILLATORIA	8603010100
OSCILLATORIACEAE PHORMIDIUM	8603010200
OSCILLATORIACEAE TRICHODESMIUM	8603010300
TRICHODESMIUM LACUSTRE	8603010301
OSCILLATORIACEAE LYNGBYA	8603010400
LYNGBYA CONTORTA	8603010401
LYNGBYA MUCICOLA	8603010402
OSCILLATORIACEAE PSEUDANABAENA	8603010500
PSEUDANABAENA CATENATA	8603010501
OSCILLATORIALES NOSTOCACEAE	8603020000
NOSTOCACEAE NOSTOC	8603020100
NOSTOCACEAE NODULARIA	8603020200
NOSTOCACEAE ANABAENA	8603020300
ANABAENA FLOS-AQUAE	8603020301
ANABAENA LIMNETICA	8603020302
NOSTOCACEAE APHANIZOMENON	8603020400
APHANIZOMENON FLOS-AQUAE	8603020401
OSCILLATORIALES SCYTONEMATACEAE	8603030000
SCYTONEMATACEAE SCYTONEMA	8603030100
SCYTONEMATACEAE TOLYPOTHRIX	8603030200
OSCILLATORIALES STIGONEMATACEAE	8603040000
STIGONEMATACEAE STIGONEMA	8603040100
STIGONEMA OCELLATUS	8603040101
STIGONEMATACEAE HAPALOSIPHON	8603040200
HAPALOSIPHON HIBERNICUS	8603040201
OSCILLATORIALES RIVULARIACEAE	8603050000
RIVULARIACEAE CALOTHRIX	8603050100
OSCILLATORIALES MASTIGOCLADACEAE	8603060000
MASTIGOCLADACEAE MASTIGOCLADUS	8603060100
MASTIGOCLADUS LAMELLOSUS	8603060101
CHLOROPHYCEAE	8700000000
CHLOROPHYCEAE VOLVOCALES	8701000000
VOLVOCALES POLYBLEPHARIDACEAE	8701010000
VOLVOCALES CHLAMYDOMONADACEAE	8701020000
CHLAMYDOMONADACEAE CHLAMYDOMONAS	8701020100
CHLAMYDOMONAS GLEOPARA	8701020101
CHLAMYDOMONAS FRIGIDA	8701020102
CHLAMYDOMONAS DINOBRYONI	8701020103
CHLAMYDOMONADACEAE POLYTOMA	8701020200
CHLAMYDOMONADACEAE CHLOROMONAS	8701020300
CHLAMYDOMONADACEAE CARTERIA	8701020400
VOLVOCALES PHACOTACEAE	8701030000
VOLVOCALES VOLVOCACEAE	8701040000

VOLVOCACEAE GONIUM	8701040100
GONIUM SOCIALE	8701040101
VOLVOCACEAE VOLVOX	8701040200
VOLVOCACEAE PANDORINA	8701040300
PANDORINA MORUM	8701040301
VOLVOCACEAE PLEODORINA	8701040400
VOLVOCACEAE EUDORINA	8701040500
EUDORINA ELEGANS	8701040501
VOLVOCALES SPONDYLOMORACEAE	8701050000
VOLVOCALES HAEMATOCOCCACEAE	8701060000
VOLVOCALES PYRAMIMONACEAE	8701070000
PYRAMIMONACEAE GYROMITUS	8701070100
CHLOROPHYCEAE TETRASPORALES	8702000000
TETRASPORALES PALMELLACEAE	8702010000
PALMELLACEAE GLOEOCYSTIS	8702010100
GLOEOCYSTIS MAJOR	8702010101
GLOEOCYSTIS AMPLA	8702010102
GLOEOCYSTIS GIGAS	8702010103
GLOEOCYSTIS VESICULOSA	8702010104
GLOEOCYSTIS APONINA	8702010105
GLOEOCYSTIS PLANCTONICA	8702010106
PALMELLACEAE PALMELLA	8702010200
PALMELLA MUCOSA	8702010201
PALMELLACEAE SPHAEROCYSTIS	8702010300
SPHAEROCYSTIS SCHROETERI	8702010301
PALMELLACEAE ASTEROCOCCUS	8702010400
ASTEROCOCCUS LIMMETICUS	8702010401
PALMELLACEAE PLANCTOCOCCUS	8702010500
PLANCTOCOCCUS ALSIUS	8702010501
PLANCTOCOCCUS GELATINOSA	8702010502
TETRASPORALES TETRASPORACEAE	8702020000
TETRASPORACEAE TETRASPORA	8702020100
TETRASPORA LAMELLOSA	8702020101
TETRASPORA LACUSTRIS	8702020102
TETRASPORA MINUMUM	8702020103
TETRASPORALES CHLORANGIACEAE	8702030000
TETRASPORALES COCCOMYXACEAE	8702040000
COCCOMYXACEAE ELAKATOTHRIX	8702040100
ELAKATOTHRIX GELATINOSA	8702040101
CHLOROPHYCEAE ULOTRICHALES	8703000000
ULOTRICHALES ULOTRICHACEAE	8703010000
ULOTRICHACEAE ULOTHRIX	8703010100
ULOTRICHACEAE BINUCLEARIA	8703010200
BINUCLEARIA TECTORUM	8703010201
ULOTRICHALES MICROSPORACEAE	8703020000
MICROSPORACEAE MICROSPORA	8703020100
ULOTRICHALES CYLINDROCAPSACEAE	8703030000
CYLINDROCAPSACEAE CYLINDROCAPSA	8703030100
CYLINDROCAPSA GEMINELLA	8703030101
ULOTRICHALES CHAETOPHORACEAE	8703040000
CHAETOPHORACEAE THAMNIOCHAETE	8703040100
CHAETOPHORACEAE CHAETOPHORA	8703040200

ULOTRICHALES PROTOCOCCACEAE	8703050000
ULOTRICHALES COLEOCHAETACEAE	8703060000
COLEOCHAETACEA CHAETOSPHAERIDIUM	8703060100
CHAETOSPHAERIDIUM PRINGSHEIMII	8703060101
ULOTRICHALES TRENTEPOHLIACEAE	8703070000
ULOTRICHALES SPHAEROPLEACEAE	8703080000
CHLOROPHYCEAE ULVALES	8704000000
ULVALES ULVACEAE	8704010000
ULVALES SCHIZOMERIDACEAE	8704020000
CHLOROPHYCEAE SCHIZOGONIALES	8705000000
SCHIZOGONIALES SCHIZOGONIACEAE	8705010000
CHLOROPHYCEAE OEDOGONIALES	8706000000
OEDOGONIALES OEDOGONIACEAE	8706010000
OEDOGONIACEAE BULBOCHAETE	8706010100
OEDOGONIACEAE OEDOGONIUM	8706010200
CHLOROPHYCEAE CLADOPHORALES	8707000000
CLADOPHORALES CLADOPHORACEAE	8707010000
CHLOROPHYCEAE CHLOROCOCCALES	8708000000
CHLOROCOCCALES CHLOROCOCCACEAE	8708010000
CHLOROCOCCALES ENDOSPHAERACEAE	8708020000
CHLOROCOCCALES MICRACTINIACEAE	8708030000
MICRACTINIACEAE GOLENKINIOPSIS	8708030100
MICRACTINIACEAE GOLENKINIA	8708030200
GOLENKINIA RADIATA	8708030201
CHLOROCOCCALE DICTYOSPHAERIACEAE	8708040000
DICTYOSPHAERIACE DICTYOSPHAERIUM	8708040100
DICTYOSPHAERIUM PULCHELLUM	8708040101
DICTYOSPHAERIUM EHRENBERGIANUM	8708040102
DICTYOSPHAERIACEA DIMORPHOCOCCUS	8708040200
DIMORPHOCOCCUS LUNATUS	8708040201
DICTYOSPHAERIACEAE BOTRYOCOCCUS	8708040300
DICTYOSPHAERIACEAE BRAUNII	8708040301
CHLOROCOCCALES CHARACIACEAE	8708050000
CHARACIACEAE SCHROEDERIA	8708050100
SCHROEDERIA SETIGERA	8708050101
SCHROEDERIA JUDAYI	8708050102
CHARACIACEAE CHARACIUM	8708050200
CHARACIUM AMBIGUUM	8708050201
CHARACIUM ORNITHOCEPHALUM	8708050202
CHLOROCOCCALES PROTOSIPHONACEAE	8708060000
CHLOROCOCCALES HYDRODICTYACEAE	8708070000
HYDRODICTYACEAE PEDIASTRUM	8708070100
PEDIASTRUM BORYANUM	8708070101
PEDIASTRUM TETRAS	8708070102
PEDIASTRUM OBTUSUM	8708070103
PEDIASTRUM SIMPLEX	8708070104
CHLOROCOCCALES COELASTRACEAE	8708080000
COELASTRACEAE COELASTRUM	8708080100
COELASTRUM BRAUNII	8708080101
COELASTRUM SCABRUM	8708080102
COELASTRUM CAMBRICUM	8708080103
COELASTRUM MICROPORUM	8708080104

CHLOROCOCCALES OOCYSTACEAE	8708090000
OOCYSTACEAE OOCYSTIS	8708090100
OOCYSTIS SUBTILISSIMA	8708090101
OOCYSTIS LACUSTRIS	8708090102
OOCYSTIS ELLIPTICA	8708090103
OOCYSTACEAE KIRCHNERIELLA	8708090200
KIRCHNERIELLA OBESA	8708090201
OOCYSTACEAE ANKISTRODESMUS	8708090300
ANKISTRODESMUS FALCATUS	8708090301
ANKISTRODESMUS FRACTUS	8708090302
ANKISTRODESMUS SPIRALIS	8708090303
OOCYSTACEAE WESTELLA	8708090400
WESTELLA BOTRYOIDES	8708090401
WESTELLA LINEARIS	8708090402
OOCYSTACEAE SELENASTRUM	8708090500
SELENASTRUM MINUTA	8708090501
OOCYSTACEAE QUADRIGULA	8708090600
QUADRIGULA LACUSTRIS	8708090601
QUADRIGULA CLOSTEROIDES	8708090602
OOCYSTACEAE TETRAEDRON	8708090700
TETRAEDRON MINUTA	8708090701
TETRAEDRON CAUDATUM	8708090702
TETRAEDRON REGULARE	8708090703
TETRAEDRON MINIMUM	8708090704
TETRAEDRON PENTAEDRICUM	8708090705
OOCYSTACEAE SCOTIELLA	8708090800
SCOTIELLA NIVALIS	8708090801
OOCYSTACEAE CHODATELLA	8708090900
CHODATELLA QUADRISETA	8708090901
CHLOROCOCCALES SCENEDESMACEAE	8708100000
SCENEDESMACEAE SCENEDESMUS	8708100100
SCENEDESMUS BIJUGA	8708100101
SCENEDESMUS DENTICULATUS	8708100102
SCENEDESMUS QUADRICAUDA	8708100103
SCENEDESMUS ABUNDANS	8708100104
SCENEDESMUS DIMORPHUS	8708100105
SCENEDESMACEAE TETRALLANTOS	8708100200
SCENEDESMACEAE CRUCIGENIA	8708100300
CRUCIGENIA QUADRATA	8708100301
CRUCIGENIA RECTANGULARIS	8708100302
CRUCIGENIA TETRAPEDIA	8708100303
CHLOROCOCCALES RADIOCOCCACEAE	8708110000
RADIOCOCCACEAE PHACOMYXA	8708110100
PHACOMYXA SPHAGNICOLA	8708110101
CHLOROPHYCEAE SIPHONALES	8709000000
SIPHONALES PHYLLOSIPHONACEAE	8709010000
SIPHONALES DICHOTOMOSIPHONACEAE	8709020000
CHLOROPHYCEAE ZYGNEMATALES	8710000000
ZYGNEMATALES ZYGNEMATACEAE	8710010000
ZYGNEMATACEAE MOUGEOTIA	8710010100
ZYGNEMATACEAE SPIROGYRA	8710010200
ZYGNEMATACEAE ZYGNEMA	8710010300

ZYGNEMATALES MESOTAENIACEAE	8710020000
MESOTAENIACEAE GONATOZYGON	8710020100
GONATOZYGON MONOTAENIUM	8710020101
GONATOZYGON KINAHANII	8710020102
MESOTAENIACEAE CYLINDROCYSTIS	8710020201
ZYGNEMATALES DESMIDIACEAE	8710030000
DESMIDIACEAE ARTHRODESMUS	8710030100
ARTHRODESMUS TENUISSIMUS	8710030101
ARTHRODESMUS INCUS	8710030102
ARTHRODESMUS TRIANGULARIS	8710030103
ARTHRODESMUS RALFSII	8710030104
ARTHRODESMUS SUBULATUS	8710030105
ARTHRODESMUS VALIDUS	8710030106
DESMIDIACEAE COSMARIUM	8710030200
COSMARIUM PUNCTUATUM	8710030201
COSMARIUM CONTRACTUM	8710030202
COSMARIUM MARGARITATUM	8710030203
COSMARIUM BIOCULATUM	8710030204
COSMARIUM ABRUPTUM	8710030205
DESMIDIACEAE DESMIDIUM	8710030300
DESMIDIUM CYLINDRICUM	8710030301
DESMIDIUM GREVILLII	8710030302
DESMIDIUM BAILEYI	8710030303
DESMIDIACEAE EUASTRUM	8710030400
EUASTRUM DIDELTA	8710030401
EUASTRUM ANSATUM	8710030402
EUASTRUM CRASSUM	8710030403
EUASTRUM PINNATUM	8710030404
EUASTRUM VERRUCOSUM	8710030405
EUASTRUM ABRUPTUM	8710030406
EUASTRUM ELEGANS	8710030407
DESMIDIACEAE PLEUROTAENIUM	8710030500
PLEUROTAENIUM NODOSUM	8710030501
PLEUROTAENIUM NODULOSUM	8710030502
PLEUROTAENIUM CORONATUM	8710030503
PLEUROTAENIUM TRABECULA	8710030504
PLEUROTAENIUM EHRENBERGII	8710030505
PLEUROTAENIUM VERRUCOSUM	8710030506
DESMIDIACEAE BAMBUSINA	8710030600
BAMBUSINA BREBISSONII	8710030601
BAMBUSINA BARRERI	8710030602
DESMIDIACEAE SPHAEROZOSMA	8710030700
SPHAEROZOSMA EXCAVATA	8710030701
DESMIDIACEAE SPONDYLOSIUM	8710030800
SPONDYLOSIUM PLANUM	8710030801
SPONDYLOSIUM PULCHRUM	8710030802
DESMIDIACEAE XANTHIDIUM	8710030900
XANTHIDIUM ANTILOPAEUM	8710030901
XANTHIDIUM ARMATUM	8710030902
XANTHIDIUM CRISTATUM	8710030903
XANTHIDIUM PSEUDOBENGALICUM	8710030904
DESMIDIACEAE TRIPLOCERAS	8710031000

TRIPLOCERAS GRACILE	8710031001
TRIPLOCERAS VERTICULATUM	8710031002
DESMIDIACEAE MICRASTERIAS	8710031100
MICRASTERIAS LATICEPTS	8710031101
MICRASTERIAS MAHABULESHWARENSIS	8710031102
MICRASTERIAS APICULATA	8710031103
MICRASTERIAS MURICATA	8710031104
MICRASTERIAS DENTICULATA	8710031105
MICRASTERIAS FOLIACEAE	8710031106
MICRASTERIAS JOHNSONII	8710031107
MICRASTERIAS RADIATA	8710031109
MICRASTERIAS RADIOSA	8710031110
MICRASTERIAS ROTATA	8710031111
MICRASTERIAS CONFERTA	8710031112
MICRASTERIAS JENNERII	8710031113
MICRASTERIAS PAPILLIFERA	8710031114
MICRASTERIAS MUCOSA	8710031115
DESMIDIACEAE STAURASTRUM	8710031200
STAURASTRUM CURVATUM	8710031201
STAURASTRUM ANATINUM	8710031202
STAURASTRUM ANKYROIDES	8710031203
STAURASTRUM ARTISTIFERUM	8710031204
STAURASTRUM BREVISPINUM	8710031205
STAURASTRUM COMPTUM	8710031206
STAURASTRUM FURCIGERUM	8710031207
STAURASTRUM GRALLATORIUM	8710031208
STAURASTRUM JOHNSONI	8710031209
STAURASTRUM LACUSTRE	8710031210
STAURASTRUM MANFELDTII	8710031211
STAURASTRUM MUCRONATUM	8710031212
STAURASTRUM NATATOR	8710031213
STAURASTRUM OPHIURA	8710031214
STAURASTRUM PACHYRHYNCHUM	8710031215
STAURASTRUM PARADOXUM	8710031216
STAURASTRUM PENTACERUM	8710031217
STAURASTRUM MEGACANTHUM	8710031218
STAURASTRUM GLADIOSUM	8710031219
STAURASTRUM LEPTOCLADUM	8710031220
STAURASTRUM LIMNETICUM	8710031221
STAURASTRUM AVICULA	8710031222
STAURASTRUM GRANDE	8710031223
STAURASTRUM ARCTISCON	8710031224
STAURASTRUM AVERSUM	8710031225
STAURASTRUM BOREALE	8710031226
STAURASTRUM CINGULUM	8710031227
STAURASTRUM DICKIEI	8710031228
STAURASTRUM ELONGATUM	8710031229
STAURASTRUM O'MEARII	8710031230
STAURASTRUM PELAGICUM	8710031231
STAURASTRUM TETRACERUM	8710031232
STAURASTRUM GRACILE	8710031233
DESMIDIACEAE HYALOTHECA	8710031300

HYALOTHECA DISSILIENS	8710031301
HYALOTHECA QUADRIDENS	8710031302
HYALOTHECA MUCOSA	8710031303
DESMIDIACEAE CLOSTERIUM	8710031400
CLOSTERIUM SETACEUM	8710031401
CLOSTERIUM KUTZINGII	8710031402
CLOSTERIUM PARIENTANA	8710031403
DESMIDIACEAE GROENBLADIA	8710031500
GROENBLADIA NEGLECTA	8710031501
DESMIDIACEAE STAURODESMUS	8710031600
DESMIDIACEAE GYMNOZYGA	8710031700
GYMNOZYGA MONILIFORMIS	8710031701
DESMIDIACEAE PENIUM	8710031800
PENIUM OBTUSA	8710031801
DESMIDIACEAE AMSCOTTIA	8710031900
AMSCOTTIA MIRA	8710031901
CHLOROPHYCEAE CHAROPHYCEAE	8711000000
CHAROPHYCEAE CHARACEAE	8711010000
CHARACEAE CHARA	8711010100
CHARACEAE NITELLA	8711010200
CHARACEAE TOLYPELLA	8711010300
EUGLENOPHYCEAE	8800000000
EUGLENOPHYCEAE EUGLENALES	8801000000
EUGLENALES EUGLENACEAE	8801010000
EUGLENACEAE TRACHELOMONAS	8801010100
EUGLENACEAE EUGLENA	8801010200
EUGLENACEAE PHACUS	8801010300
EUGLENACEAE STROMBOMONAS	8801010400
EUGLENALES ASTASIACEAE	8801020000
EUGLENALES PERANEMACEAE	8801030000
EUGLENOPHYCEAE COLACIALES	8802000000
COLACIALES COLIACIACEAE	8802010000
COLIACIACEAE COLACIUM	8802010100
COLACIUM CALVUM	8802010101
COLACIUM VESICULOSUM	8802010102
XANTHOPHYCEAE	8900000000
XANTHOPHYCEAE RHIZOCHLORIDALES	8901000000
RHIZOCHLORIDALE STIPITOCOCCACEAE	8901010000
STIPITOCOCCACEAE RHIZOCHLORIS	8901010100
XANTHOPHYCEAE HETEROCAPSALES	8902000000
HETEROCAPSALES CHLOROSACCACEAE	8902010000
HETEROCAPSALES MALLEODENDRACEAE	8902020000
XANTHOPHYCEAE HETEROCOCCALES	8903000000
HETEROCOCCALE PLEUROCHLORIDACEAE	8903010000
HETEROCOCCALES GLOEOBOTRYDIACEAE	8903020000
HETEROCOCCALES MISCHOCOCCACEAE	8903030000
HETEROCOCCALES CHARACIOPSIDACEAE	8903040000
CHARACIOPSIDACEAE CHARACIOPSIS	8903040100
CHARACIOPSIDACEAE PERONIELLA	8903040200
PERONIELLA HYALOTHECAE	8903040201
HETEROCOCCALES CHLOROPEDIACEAE	8903060000
HETEROCOCCALES CENTRITRACTACEAE	8903060000

CENTRITRACTACEA PSEUDOTETRAEDRON	8903060100
PSEUDOTETRAEDRON NEGLECTUM	8903060101
HETEROCOCCALES CHLOROTHECIACEAE	8903070000
XANTHOPHYCEAE HETEROTRICHALES	8904000000
HETEROTRICHALES TRIBONEMATACEAE	8904010000
TRIBONEMATACEAE TRIBONEMA	8904010100
HETEROTRICHALES MONOCILIACEAE	8904020000
XANTHOPHYCEAE HETEROSIPHONALES	8905000000
HETEROSIPHONALES BOTRYDIACEAE	8905010000
HETEROSIPHONALES VAUCHERIACEAE	8905020000
CHRYSOPHYCEAE	9000000000
CHRYSOPHYCEAE CHRYSOMONADALES	9001000000
CHRYSOMONADALES CHROMULINACEAE	9001010000
CHROMULINACEAE KEPHYRION	9001010100
KEPHYRION CINCTUM	9001010101
KEPHYRION LITTORALE	9001010102
KEPHYRION BORALE	9001010103
KEPHYRION VALKANOVII	9001010104
KEPHYRION FULVUM	9001010105
CHROMULINACEAE CHROMULINA	9001010200
CHROMULINA MINUTA	9001010201
CHROMULINA GLACIALIS	9001010202
CHROMULINACEAE BICOECA	9001010300
BICOECA MITRA	9001010301
BICOECA CYLINDRICA	9001010302
CHROMULINACEAE CHRYSOCOCCUS	9001010400
CHRYSOCOCCUS RADIANS	9001010401
CHROMULINACEAE CHRYSOPYXIS	9001010500
CHROMULINACEAE CODOMONAS	9001010600
CODOMONAS ANNULATA	9001010601
CHRYSOMONADALES MALLOMONADACEAE	9001020000
MALLOMONADACEAE CHRYSOSPHAERELLA	9001020100
CHRYSOSPHAERELLA LONGISPINA	9001020101
MALLOMONADACEAE MALLOMONAS	9001020200
MALLOMONAS LIEBNERI	9001020201
MALLOMONAS ELONGATA	9001020202
MALLOMONAS PUMILLIO	9001020203
MALLOMONAS AKROKOMONAS	9001020204
MALLOMONAS LYNCHENSIS	9001020205
MALLOMONAS TONSURATA	9001020206
MALLOMONAS PSEUDOCORONATA	9001020207
MALLOMONAS CAUDATA	9001020208
CHRYSOMONADALES SYNCRYPTACEAE	9001030000
CHRYSOMONADALES SYNURACEAE	9001040000
SYNURACEAE SYNURA	9001040100
SYNURA ADAMSII	9001040101
SYNURA CAROLINIANA	9001040102
SYNURA URELLA	9001040103
SYNURA LAPPONICA	9001040104
SYNURACEAE CHRYSODIDYMUS	9001040200
SYNURACEAE CONRADIELLA	9001040300
CHRYSOMONA COCCOLITHOPHORIDACEAE	9001050000

CHRYSOMONADALES OCHROMONADACEAE	9001060000
OCHROMONADACEAE OCHROMONAS	9001060100
OCHROMONAS GLOBOSA	9001060101
OCHROMONADACEAE CYCLONEXIS	9001060200
OCHROMONADACEAE CHRYSOXYS	9001060300
CHRYSOXYS MAJOR	9001060301
OCHROMONADACEAE UROGLENA	9001060400
UROGLENA VOLVOX	9001060401
OCHROMONADACEAE UROGLENOPSIS	9001060500
UROGLENOPSIS AMERICANA	9001060501
OCHROMONADACEAE HYALOBRYON	9001060600
OCHROMONADACEAE EPIPYXIS	9001060700
EPIPYXIS DIPLOSTOMA	9001060701
EPIPYXIS RAMOSA	9001060702
EPIPYXIS UTRICULUS	9001060703
OCHROMONADACEAE DINOBRYON	9001060800
DINOBRYON BAVARICUM	9001060801
DINOBRYON DIVERGENS	9001060802
DINOBRYON SERTULARIA	9001060803
DINOBRYON SOCIALE	9001060804
DINOBRYON CYLINDRICUM	9001060805
DINOBRYON BORGEI	9001060806
OCHROMONADACEAE PSEUDOKEPHYRION	9001060900
PSEUDOKEPHYRION PLANCTONICUM	9001060901
PSEUDOKEPHYRION MINUTISSIMUM	9001060902
PSEUDOKEPHYRION LATUM	9001060903
PSEUDOKEPHYRION SKUJAE	9001060904
OCHROMONADACEAE CHRYSOLYKOS	9001061000
CHRYSOLYKOS SKUJAI	9001061001
CHRYSOLYKOS PLANCTONICUS	9001061002
OCHROMONADACEAE CHRYSOIKOS	9001061100
CHRYSOIKOS BICORNIS	9001061101
OCHROMONADACEAE DENDROMONAS	9001061200
DENDROMONAS CRYPTOSTYLIS	9001061201
OCHROMONADACEAE STYLOCHRYSALLIS	9001061300
STYLOCHRYSALLIS PARASITICA	9001061301
CHRYSOMONADALES PRYMNESIACEAE	9001070000
PRYMNESIACEAE CHRYSOCHROMULINA	9001070100
CHRYSOCHROMULINA PARVA	9001070101
CHRYSOPHYCEAE RHIZOCHRYSIDALES	9002000000
RHIZOCHRYSIDAL RHIZOCHRYSIDACEAE	9002010000
RHIZOCHRYSIDACEAE CHRYSAMOEBA	9002010100
CHRYSAMOEBA RADIANS	9002010101
RHIZOCHRYSIDACEAE RHIZOCHRYSIS	9002010200
RHIZOCHRYSIS LIMNETICA	9002010201
RHIZOCHRYSIDACEAE BITRICHIA	9002010300
BITRICHIA CHODATI	9002010301
RHIZOCHRYSIDACEAE HELIOCHRYSIS	9002010400
HELIOCHRYSIS RADIANS	9002010401
RHIZOCHRYSIDACEAE LAGYNION	9002010500
LAGYNION FULVUM	9002010501
LAGYNION SCHERFFELI	9002010502

LAGYNION OBLONGATUM	9002010503
CHRYSOPHYCEAE CHRYSOCAPSALES	9003000000
CHRYSOCAPSALES CHRYSOCAPSACEAE	9003010000
CHRYSOCAPSACEAE CHRYSOCAPSA	9003010100
CHRYSOCAPSA PLANCTONICA	9003010101
CHRYSOCAPSALES NAEGELIELLACEAE	9003020000
NAEGELIELLACEAE NAEGELIELLA	9003020100
NAEGELIELLA FLAGELLIFERA	9003020101
CHRYSOCAPSALES HYDRURACEAE	9003030000
CHRYSOPHYCEAE CHRYSOTRICHALES	9004000000
CHRYSOTRICHALES PHAEOTHAMNIACEAE	9004010000
CHRYSOPHYCEAE CHRYSOSPHAERALES	9005000000
CHRYSOSPHAERAL CHRYSOSPHAERACEAE	9005010000
CHRYSOPHYCEAE MONOSIGALES	9006000000
MONOSIGALES SALPINGOECACEAE	9006010000
SALPINGOECACEAE SALPINGOECA	9006010100
SALPINGOECA FREQUENTISSIMA	9006010101
MONOSIGALES MONOSIGACEAE	9006020000
MONOSIGACEAE DESMARELLA	9006020100
DESMARELLA MONILIFORMIS	9006020101
DESMARELLA IRREGULARIS	9006020102
BACILLARIOPHYCEAE	9100000000
BACILLARIOPHYCEAE CENTRALES	9101000000
CENTRALES COSCINODISCACEAE	9101010000
COSCINODISCACEAE CYCLOTELLA	9101010100
CYCLOTELLA NANA	9101010101
CYCLOTELLA COMTA	9101010102
CYCLOTELLA MICHIGANIANA	9101010103
CYCLOTELLA BODANICA	9101010104
CYCLOTELLA KUTZINGIANA	9101010105
CYCLOTELLA MENEGHINIANA	9101010106
COSCINODISCACEAE STEPHANODISCUS	9101010200
STEPHANODISCUS ASTREA	9101010201
COSCINODISCACEAE MELOSIRA	9101010300
MELOSIRA GRANULATA	9101010301
MELOSIRA DISTANS	9101010302
MELOSIRA ITALICA	9101010303
COSCINODISCACEAE COSCINODISCUS	9101010400
COSCINODISCUS LACUSTRIS	9101010401
CENTRALES EUPODISCACEAE	9101020000
CENTRALES RHIZOSOLENIACEAE	9101030000
RHIZOSOLENIACEAE RHIZOSOLENIA	9101030100
RHIZOSOLENIA ERIENSIS	9101030101
CENTRALES CHAETOCERACEAE	9101040000
CENTRALES BIDDULPHIACEAE	9101050000
BIDDULPHIACEAE BIDDULPHIA	9101050100
CENTRALES ANAULACEAE	9101060000
BACILLARIOPHYCEAE PENNALES	9102000000
PENNALES TABELLARIACEAE	9102010000
TABELLARIACEAE TABELLARIA	9102010100
TABELLARIA FENESTRATA	9102010101
TABELLARIA FLOCCULOSA	9102010102

TABELLARIACEAE TETRACYCLUS	9102010200
TETRACYCLUS LACUSTRIS	9102010201
PENNALES MERIDIONACEAE	9102020000
MERIDIONACEAE MERIDION	9102020100
MERIDION CIRCULARE	9102020101
PENNALES DIATOMACEAE	9102030000
DIATOMACEAE OPEPHORA	9102030100
OPEPHORA PACIFICA	9102030101
DIATOMACEAE DIATOMA	9102030200
DIATOMA VULGARE	9102030201
DIATOMA ELONGATUM	9102030202
PENNALES FRAGILARIACEAE	9102040000
FRAGILARIACEAE ASTERIONELLA	9102040100
ASTERIONELLA FORMOSA	9102040101
FRAGILARIACEAE FRAGILARIA	9102040200
FRAGILARIA CAPUCINA	9102040201
FRAGILARIA CROTONENSIS	9102040202
FRAGILARIA VIRESCENS	9102040203
FRAGILARIA CONSTRUENS	9102040204
FRAGILARIA PINNATA	9102040205
FRAGILARIACEAE SYNEDRA	9102040300
SYNEDRA ACUS	9102040301
SYNEDRA RUMPENS	9102040302
SYNEDRA DELITISSIMA	9102040303
SYNEDRA FILIFORMIS	9102040304
SYNEDRA ULNA	9102040305
SYNEDRA CAPITELLATA	9102040306
SYNEDRA CAPITATA	9102040307
SYNEDRA NANA	9102040308
FRAGILARIACEAE CENTRONELLA	9102040400
CENTRONELLA REICHELTI	9102040401
PENNALES EUNOTIACEAE	9102050000
EUNOTIACEAE CERATONEIS	9102050100
EUNOTIACEAE EUNOTIA	9102050200
EUNOTIA DENTICULATA	9102050201
EUNOTIA BINALE	9102050202
EUNOTIA FLEXUOSA	9102050203
EUNOTIA LUNARIS	9102050204
EUNOTIA PERPUSSILLA	9102050205
EUNOTIA PECTINALIS	9102050206
EUNOTIA PRAEMONAS	9102050207
EUNOTIA SUDETICA	9102050208
EUNOTIA CAESPITOSA	9102050209
EUNOTIA NAEGELII	9102050210
EUNOTIACEAE ACTINELLA	9102050300
ACTINELLA PUNCTATA	9102050301
EUNOTIACEAE AMPHICAMPA	9102050400
AMPHICAMPA HEMICYCLUS	9102050401
PENNALES ACHNANTHACEAE	9102060000
ACHNANTHACEAE ACHNANTHES	9102060100
ACHNANTHES DEPRESSA	9102060101
ACHNANTHES LAEVIS	9102060102

LAGYNION OBLONGATUM	9002010503
CHRYSOPHYCEAE CHRYSOCAPSALES	9003000000
CHRYSOCAPSALES CHRYSOCAPSACEAE	9003010000
CHRYSOCAPSACEAE CHRYSOCAPSA	9003010100
CHRYSOCAPSA PLANCTONICA	9003010101
CHRYSOCAPSALES NAEGELIELLACEAE	9003020000
NAEGELIELLACEAE NAEGELIELLA	9003020100
NAEGELIELLA FLAGELLIFERA	9003020101
CHRYSOCAPSALES HYDRURACEAE	9003030000
CHRYSOPHYCEAE CHRYSOTRICHALES	9004000000
CHRYSOTRICHALES PHAEOTHAMNIACEAE	9004010000
CHRYSOPHYCEAE CHRYSOSPHAERALES	9005000000
CHRYSOSPHAERAL CHRYSOSPHAERACEAE	9005010000
CHRYSOPHYCEAE MONOSIGALES	9006000000
MONOSIGALES SALPINGOECACEAE	9006010000
SALPINGOECACEAE SALPINGOECA	9006010100
SALPINGOECA FREQUENTISSIMA	9006010101
MONOSIGALES MONOSIGACEAE	9006020000
MONOSIGACEAE DESMARELLA	9006020100
DESMARELLA MONILIFORMIS	9006020101
DESMARELLA IRREGULARIS	9006020102
BACILLARIOPHYCEAE	9100000000
BACILLARIOPHYCEAE CENTRALES	9101000000
CENTRALES COSCINODISCACEAE	9101010000
COSCINODISCACEAE CYCLOTELLA	9101010100
CYCLOTELLA NANA	9101010101
CYCLOTELLA COMTA	9101010102
CYCLOTELLA MICHIGANIANA	9101010103
CYCLOTELLA BODANICA	9101010104
CYCLOTELLA KUTZINGIANA	9101010105
CYCLOTELLA MENEGHINIANA	9101010106
COSCINODISCACEAE STEPHANODISCUS	9101010200
STEPHANODISCUS ASTREA	9101010201
COSCINODISCACEAE MELOSIRA	9101010300
MELOSIRA GRANULATA	9101010301
MELOSIRA DISTANS	9101010302
MELOSIRA ITALICA	9101010303
COSCINODISCACEAE COSCINODISCUS	9101010400
COSCINODISCUS LACUSTRIS	9101010401
CENTRALES EUPODISCACEAE	9101020000
CENTRALES RHIZOSOLENIACEAE	9101030000
RHIZOSOLENIACEAE RHIZOSOLENIA	9101030100
RHIZOSOLENIA ERIENSIS	9101030101
CENTRALES CHAETOCERACEAE	9101040000
CENTRALES BIDDULPHIACEAE	9101050000
BIDDULPHIACEAE BIDDULPHIA	9101050100
CENTRALES ANAULACEAE	9101060000
BACILLARIOPHYCEAE PENNALES	9102000000
PENNALES TABELLARIACEAE	9102010000
TABELLARIACEAE TABELLARIA	9102010100
TABELLARIA FENESTRATA	9102010101
TABELLARIA FLOCCULOSA	9102010102

TABELLARIACEAE TETRACYCLUS	9102010200
TETRACYCLUS LACUSTRIS	9102010201
PENNALES MERIDIONACEAE	9102020000
MERIDIONACEAE MERIDION	9102020100
MERIDION CIRCULARE	9102020101
PENNALES DIATOMACEAE	9102030000
DIATOMACEAE OPEPHORA	9102030100
OPEPHORA PACIFICA	9102030101
DIATOMACEAE DIATOMA	9102030200
DIATOMA VULGARE	9102030201
DIATOMA ELONGATUM	9102030202
PENNALES FRAGILARIACEAE	9102040000
FRAGILARIACEAE ASTERIONELLA	9102040100
ASTERIONELLA FORMOSA	9102040101
FRAGILARIACEAE FRAGILARIA	9102040200
FRAGILARIA CAPUCINA	9102040201
FRAGILARIA CROTONENSIS	9102040202
FRAGILARIA VIRESCENS	9102040203
FRAGILARIA CONSTRUENS	9102040204
FRAGILARIA PINNATA	9102040205
FRAGILARIACEAE SYNEDRA	9102040300
SYNEDRA ACUS	9102040301
SYNEDRA RUMPENS	9102040302
SYNEDRA DELITISSIMA	9102040303
SYNEDRA FILIFORMIS	9102040304
SYNEDRA ULNA	9102040305
SYNEDRA CAPITELLATA	9102040306
SYNEDRA CAPITATA	9102040307
SYNEDRA NANA	9102040308
FRAGILARIACEAE CENTRONELLA	9102040400
CENTRONELLA REICHELTI	9102040401
PENNALES EUNOTIACEAE	9102050000
EUNOTIACEAE CERATONEIS	9102050100
EUNOTIACEAE EUNOTIA	9102050200
EUNOTIA DENTICULATA	9102050201
EUNOTIA BINALE	9102050202
EUNOTIA FLEXUOSA	9102050203
EUNOTIA LUNARIS	9102050204
EUNOTIA PERPUSSILLA	9102050205
EUNOTIA PECTINALIS	9102050206
EUNOTIA PRAEMONAS	9102050207
EUNOTIA SUDETICA	9102050208
EUNOTIA CAESPITOSA	9102050209
EUNOTIA NAEGELII	9102050210
EUNOTIACEAE ACTINELLA	9102050300
ACTINELLA PUNCTATA	9102050301
EUNOTIACEAE AMPHICAMPA	9102050400
AMPHICAMPA HEMICYCLUS	9102050401
PENNALES ACHNANTHACEAE	9102060000
ACHNANTHACEAE ACHNANTHES	9102060100
ACHNANTHES DEPRESSA	9102060101
ACHNANTHES LAEVIS	9102060102

ACHNANTHES LANCEOLATA	9102060103
ACHNANTHES LINEARIS	9102060104
ACHNANTHES MICROCEPHALA	9102060105
ACHNANTHES NETICUS	9102060106
ACHNANTHACEAE COCCONEIS	9102060200
COCCONEIS PLANCENTULA	9102060201
ACHNANTHACEAE PERONIOPSIS	9102060300
PERONIOPSIS HERIBAUDII	9102060301
PENNALES NAVICULACEAE	9102070000
NAVICULACEAE NEIDIUM	9102070100
NEIDIUM AFFINE	9102070101
NAVICULACEAE GYROSIGMA	9102070200
NAVICULACEAE PINNULARIA	9102070300
PINNULARIA ARCA	9102070301
PINNULARIA MAJOR	9102070302
PINNULARIA LATA	9102070303
PINNULARIA DIVERGENS	9102070304
PINNULARIA STOMATOPHORA	9102070305
PINNULARIA ARCTICA	9102070306
NAVICULACEAE ANOMOEONEIS	9102070400
ANOMOEONEIS BRACHYSIRA	9102070401
ANOMOEONEIS SERIANS	9102070402
NAVICULACEAE AMPHIPLEURA	9102070500
AMPHIPLEURA PELLUCIDA	9102070501
NAVICULACEAE FRUSTULIA	9102070600
FRUSTULIA RHOMBOIDES	9102070601
FRUSTULIA VULGARIS	9102070603
NAVICULACEAE NAVICULA	9102070700
NAVICULA RADIOSA	9102070701
NAVICULA CRYPTOCEPHALA	9102070702
NAVICULA CUSPIDATA	9102070703
NAVICULACEAE STAURONEIS	9102070800
STAURONEIS PHOENICENTERON	9102070801
STAURONEIS ANCEPTS	9102070802
NAVICULACEAE PLEUROSIGMA	9102070900
NAVICULACEAE CALONEIS	9102071000
CALONEIS LADOGENSIS	9102071001
NAVICULACEAE MASTOGLOIA	9102071100
MASTOGLOIA SMITHII	9102071101
NAVICULACEAE DIPLONEIS	9102071200
PENNALES GOMPHONEMATACEAE	9102080000
GOMPHONEMATACEAE GOMPHONEMA	9102080100
GOMPHONEMA ANGUSTATUM	9102080101
GOMPHONEMA GRACILE	9102080102
GOMPHONEMA LANCEOLATUM	9102080103
GOMPHONEMA MONTANUM	9102080104
GOMPHONEMATACEAE GOMPHONEIS	9102080200
PENNALES CYMBELLACEAE	9102090000
CYMBELLACEAE CYMBELLA	9102090100
CYMBELLA CAESPITOSA	9102090101
CYMBELLA CISTULA	9102090102
CYMBELLA EHRENBERGII	9102090103

CYMBELLA TUMIDULA	9102090104
CYMBELLA LANCEOLATA	9102090105
CYMBELLACEAE AMPHORA	9102090200
AMPHORA OVALIS	9102090201
CYMBELLACEAE EPITHEMIA	9102090300
CYMBELLACEAE RHOPALODIA	9102090400
RHOPALODIA GIBBA	9102090401
PENNALES NITZSCHIACEAE	9102100000
NITZSCHIACEAE NITZSCHIA	9102100100
NITZSCHIA ACICULARIS	9102100101
NITZSCHIA CAPITELLATA	9102100102
NITZSCHIA SIGMA	9102100103
NITZSCHIA SIGMOIDEA	9102100104
NITZSCHIA SINUATA	9102100105
NITZSCHIA VERMICULARIS	9102100106
NITZSCHIA SCALARIS	9102100107
NITZSCHIA CLOSTERIUM	9102100108
NITZSCHIACEAE HANTZSCHIA	9102100200
HANTZSCHIA AMPHIOXYS	9102100201
NITZSCHIACEAE DENTICULA	9102100300
PENNALES SURIRELLACEAE	9102110000
SURIRELLACEAE SURIRELLA	9102110100
SURIRELLA ROBUSTA	9102110101
SURIRELLACEAE CYMATOPLEURA	9102110200
CYMATOPLEURA SOLEA	9102110201
SURIRELLACEAE STENOPTEROBIA	9102110300
STENOPTEROBIA INTERMEDIA	9102110301
PHAEOPHYTA	9200000000
DINOPHYCEAE	9300000000
DINOPHYCEAE GYMNODINIALES	9301000000
GYMNODINIALES GYMNODINIACEAE	9301010000
GYMNODINIACEAE GYMNODINIUM	9301010100
GYMNODINIUM UBERRIMUM	9301010101
GYMNODINIUM VARIANS	9301010102
GYMNODINIUM ORDINATUM	9301010103
DINOPHYCEAE PERIDINIALES	9302000000
PERIDINIALES GLENODINIACEAE	9302010000
GLENODINIACEAE GLENODINIUM	9302010100
GLENODINIUM QUADRIDENS	9302010101
PERIDINIALES GONYAULACACEAE	9302020000
PERIDINIALES PERIDINIACEAE	9302030000
PERIDINIACEAE PERIDINIUM	9302030100
PERIDINIUM CINCTUM	9302030101
PERIDINIUM LIMBATUM	9302030102
PERIDINIUM PUSILLUM	9302030103
PERIDINIACEAE PERIDINIOPSIS	9302030200
PERIDINIALES CERATIACEAE	9302040000
CERATIACEAE CERATIUM	9302040100
CERATIUM CAROLINIANA	9302040101
CERATIUM HIRUNDINELLA	9302040102
DINOPHYCEAE DINOCAPSALES	9303000000
DINOCAPSALES GLOEODINIACEAE	9303010000

GLOEODINIACEAE UROCOCCUS	9303010100
UROCOCCUS INSIGNIS	9303010101
DINOPHYCEAE DINOCOCCALES	9304000000
DINOCOCCALES PHYTODINIACEAE	9304010000
PHYTODINIACEAE STYLODINIUM	9304010100
STYLODINIUM GLOBOSUM	9304010101
DINOCOCCALES BLASTODINIACEAE	9304020000
CHLOROMONADOPHYCEAE	9400000000
CHLOROMONADOPHY CHLOROMONADALES	9401000000
CHLOROMONADALES CHLOROMONADACEAE	9401010000
CRYPTOPHYCEAE	9500000000
CRYPTOPHYCEAE CRYPTOMONADALES	9501000000
CRYPTOMONAD CRYPTOCHRYSIDACEAE	9501010000
CRYPTOCHRYSIDACEAE RHODOMONAS	9501010100
RHODOMONAS MINUTA	9501010101
CRYPTOMONADALES CRYPTOMONADACEAE	9501020000
CRYPTOMONADACEAE CRYPTOMONAS	9501020100
CRYPTOMONAS EROSA	9501020101
CRYPTOMONAS MARSSONII	9501020102
CRYPTOMONAS OVATA	9501020103
CRYPTOMONAD NEPHROSELMIDIACEAE	9501030000
CRYPTOMONAD KATHABLEPHARIDACEAE	9501040000
KATHABLEPHARIDAC KATHABLEPHARIS	9501040100
KATHABLEPHARIS OVALIS	9501040101
CRYPTOPHYCEAE CRYPTOCOCCALES	9502000000
CRYPTOCOCCALES CRYPTOCOCCACEAE	9502010000
RHODOPHYCEAE	9600000000
RHODOPHYCEAE BANGIALES	9601000000
BANGIALES GONIOTRICHACEAE	9601010000
BANGIALES BANGIACEAE	9601020000
RHODOPHYCEAE NEMALIONALES	9602000000
NEMALIONALES CHANTRANSIACEAE	9602010000
NEMALIONALES BATRACHOSPERMACEAE	9602020000
NEMALIONALES THOREACEAE	9602030000
NEMALIONALES LEMANEACEAE	9602040000
EXTRATERRESTRIALS	9900000000

APPENDIX 2: LIST OF TAXA OTHER THAN SPECIES AND CORRESPONDING CODES ORDERED ALPHABETICALLY BY TAXA

ACHNANTHACEAE	9102060000
ACHNANTHES	9102060100
ACRASIOMYCETES	7602000000
ACTINELLA	9102050300
ALISMACEAE	8502060000
AMPHICAMPA	9102050400
AMPHIPLEURA	9102070600
AMPHORA	9102090200
AMSCOTTIA	8710031900
ANABAENA	8603020300
ANAULACEAE	9101060000
ANKISTRODESMUS	8708090300
ANOMOEONEIS	9102070400
ANTHOCEROTAE	7902000000
ANTHOPHYTA	8500000000
APHANIZOMENON	8603020400
APHANOCAPSA	8601010500
APHANOTHECE	8601011100
ARACEAE	8502090000
ARTHRODESMUS	8710030100
ARTHROPHYTA	8100000000
ASCOMYCETES	7702000000
ASTASIACEAE	8801020000
ASTER	8501100100
ASTERIONELLA	9102040100
ASTEROCOCCUS	8702010400
BACILLARIOPHYCEAE	9100000000
BAMBUSINA	8710030600
BANGIACEAE	9601020000
BANGIALES	9601000000
BASIDIOMYCETES	7703000000
BATRACHOSPERMACEAE	9602020000
BICOECA	9001010300
BIDDULPHIA	9101050100
BIDDULPHIACEAE	9101050000
BINUCLEARIA	8703010200
BITRICHIA	9002010300
BLASTODINIACEAE	9304020000
BOTRYDIACEAE	8906010000
BOTRYOCOCCUS	8708040300
BRASENIA	8501020100
BRYOPHYTA	7900000000
BULBOCHAETE	8706010100
CABOMBACEAE	8501020000
CALAMAGROSTIS	8502070200
CALLITRICHACEAE	8501060000
CALLITRICHE	8501060100
CALONEIS	9102071000
CALOTHRIX	8603030100
CAREX	8502080300

CARTERIA	8701020400
CATABROSA	8502070300
CENTRALES	9101000000
CENTRITRACTACEAE	8903060000
CENTRONELLA	9102040400
CERATIACEAE	9302040000
CERATIUM	9302040100
CERATONEIS	9102050100
CERATOPHYLLACEAE	8501010000
CERATOPHYLLUM	8501010100
CHAETOCERACEAE	9101040000
CHAETOPHORA	8703040200
CHAETOPHORACEAE	8703040000
CHAETOSPHAERIDIUM	8703060100
CHAMAESIPHON	8602030100
CHAMAESIPHONACEAE	8602030000
CHAMAESIPHONALES	8602000000
CHANTRANSIACEAE	9602010000
CHARA	8711010100
CHARACEAE	8711010000
CHARACIACEAE	8708050000
CHARACIOPSIDACEAE	8903040000
CHARACIOPSIS	8903040100
CHARACIUM	8708050200
CHAROPHYCEAE	8711000000
CHLAMYDOMONADACEAE	8701020000
CHLAMYDOMONAS	8701020100
CHLORANGIACEAE	8702030000
CHLOROCOCCACEAE	8708010000
CHLOROCOCCALES	8708000000
CHLOROMONADACEAE	9401010000
CHLOROMONADALES	9401000000
CHLOROMONADOPHYCEAE	9400000000
CHLOROMONAS	8701020300
CHLOROPEDIACEAE	8903050000
CHLOROPHYCEAE	8700000000
CHLOROSACCACEAE	8902010000
CHLOROTHECIACEAE	8903070000
CHODATELLA	8708090900
CHROMULINA	9001010200
CHROMULINACEAE	9001010000
CHROOCOCCACEAE	8601010000
CHROOCOCCALES	8601000000
CHROOCOCCUS	8601010100
CHRYSAMOEBA	9002010100
CHRYSOCAPSA	9003010100
CHRYSOCAPSACEAE	9003010000
CHRYSOCAPSALES	9003000000
CHRYSOCHROMULINA	9001070100
CHRYSOCOCCUS	9001010400
CHRYSODIDYMUS	9001040200
CHRYSOIKOS	9001061100
CHRYSOLYKOS	9001061000
CHRYSOMONADALES	9001000000

CHRYSOPHYCEAE	9800000000
CHRYSOPYXIS	9801010800
CHRYSOSPHAERACEAE	9805010000
CHRYSOSPHAERALES	9805000000
CHRYSOSPHAERELLA	9803020100
CHRYSOTRICHALES	9804000000
CHRYSOXYS	9801080300
CLADOPHORACEAE	8707010000
CLADOPHORALES	8707000000
CLOSTERIUM	8710031400
COCCOLITHOPHORIDACEAE	9801050000
COCCOMYXACEAE	8702040000
COCCONEIS	9102060800
CODOMONAS	9801010800
COELASTRACEAE	8708080000
COELASTRUM	8708080100
COELOSPHAERIUM	8601010700
COLACIALES	8802000000
COLACIUM	8802010100
COLEOCHAETACEAE	8703060000
COLIACIACEAE	8802010000
COMPOSITAE	8501100000
CONIFEROPHYTA	8400000000
CONRADIELLA	9801040300
CONVALLARIACEAE	8502150000
COSCINODISCACEAE	9101010000
COSCINODISCUS	9101010400
COSMARIUM	8710030800
CRUCIGENIA	8708100300
CRYPTOCHRYSIDACEAE	9501010000
CRYPTOCOCCACEAE	9602010000
CRYPTOCOCCALES	9602000000
CRYPTOMONADACEAE	9501020000
CRYPTOMONADALES	9501000000
CRYPTOMONAS	9501020100
CRYPTOPHYCEAE	9500000000
CYANOPHYTA	8600000000
CYCLONEXIS	9801080000
CYCLOTELLA	9101010100
CYLINDROCAPSA	8703030100
CYLINDROCAPSACEAE	8703030000
CYMATOPLEURA	9102110200
CYMBELLA	9102080100
CYMBELLACEAE	9102080000
CYPERACEAE	[illegible]
DACTYLOCOCCOPSIS	8601010000
DENDROMONAS	9800061200
DENTICULA	9102100000
DERMOCARPACEAE	[illegible]
DESMARELLA	[illegible]
DESMIDIACEAE	8710000000
DESMIDIUM	[illegible]

DEUTEROMYCETES	7704000000
DIATOMA	9102030200
DIATOMACEAE	9102030000
DICHOTOMOSIPHONACEAE	8708080000
DICOTYLEDONAE	8501000000
DICTYOSPHAERIACEAE	8708040000
DICTYOSPHAERIUM	8708040100
DIMORPHOCOCCUS	8708040200
DINOBRYON	9001060800
DINOCAPSALES	9303000000
DINOCOCCALES	9304000000
DINOPHYCEAE	9300000000
DIPLONEIS	9102071200
DROSERACEAE	8501050000
ELAKATOTHRIX	8702040100
ELEOCHARIS	8502080100
ENDOSPHAERACEAE	8708020000
ENTOPHYSALIDACEAE	8601020000
EPIPYXIS	9001060700
EPITHEMIA	9102090300
EQUISETALES	8101010000
EQUISETUM	8101010100
ERIOCAULACEAE	8502110000
ERIOCAULON	8502110100
EUASTRUM	8710030400
EUCAPSIS	8601010600
EUDORINA	8701040500
EUGLENA	8801010200
EUGLENACEAE	8801010000
EUGLENALES	8801000000
EUGLENOPHYCEAE	8800000000
EUMYCOTA	7700000000
EUNOTIA	9102060200
EUNOTIACEAE	9102060000
EUPODISCACEAE	9101020000
EXTRATERRESTRIALS	9900000000
FRAGILARIA	9102040200
FRAGILARIACEAE	9102040000
FRUSTULIA	9102070600
GLENODINIACEAE	9302010000
GLENODINIUM	9302010100
GLOEOBOTRYDIACEAE	8903000000
GLOEOCAPSA	8601010300
GLOEOCYSTIS	8708010100
GLOEODINIACEAE	9303010000
GLOEOTHECE	8601011900
GOLENKINIA	8708030000
GOLENKINIOPSIS	8708030100
GOMPHONEIS	[illegible]
GOMPHONEMA	9102080100
GOMPHONEMATACEAE	9102080000
GOMPHOSPHAERIA	8601011300

GONATOZYGON	8710020100
GONIOTRICHACEAE	9601010000
GONIUM	8701040100
GONYAULACACEAE	9302020000
GRAMINEAE	8502070000
GROENBLADIA	8710031500
GYMNODINIACEAE	9301010000
GYMNODINIALES	9301000000
GYMNODINIUM	9301010100
GYMNOZYGA	8710031700
GYROMITUS	8701070100
GYROSIGMA	9102070200
HAEMATOCOCCACEAE	8701060000
HALORAGIDACEAE	8501070000
HANTZSCHIA	9102100200
HAPALOSIPHON	8603040200
HELIOCHRYSIS	9002010400
HEPATICAE	7901000000
HETEROCAPSALES	8902000000
HETEROCOCCALES	8903000000
HETEROSIPHONALES	8905000000
HETEROTRICHALES	8904000000
HIPPURIS	8501070100
HOLOPEDIUM	8601011000
HOMALOCENCHRUS	8502070100
HYALOBRYON	9001060600
HYALOTHECA	8710031300
HYDRODICTYACEAE	8708070000
HYDRURACEAE	9003030000
IRIDACEAE	8502160000
IRIS	8502160100
JUNCACEAE	8502120000
JUNCUS	8502120100
KATHABLEPHARIDACEAE	9501040000
KATHABLEPHARIS	9501040100
KEPHYRION	9001010100
KIRCHNERIELLA	8708090200
LABYRINTHULOMYCETES	7603000000
LAGYNION	9002010500
LEMANEACEAE	9602040000
LEMNA	8502100100
LEMNACEAE	8502100000
LENTIBULARIACEAE	8501080000
LILIACEAE	8502140000
LOBELIA	8501090100
LOBELIACEAE	8501090000
LYCOPHYTA	8[illegible]00000
LYNGBYA	8603010400
MALLO[illegible]ACEAE	9002020000
MALLOMONADACEAE	9001020000
MALLOMONAS	9001020200
MASTIGOCLADACEAE	8603060000

MASTIGOCLADUS	8603060100
MASTOGLOIA	9102071100
MELANTHACEAE	8502130000
MELOSIRA	9101010300
MENYANTHACEAE	8501110000
MENYANTHES	8501110100
MERIDION	9102020100
MERIDIONACEAE	9102020000
MERISMOPEDIA	8601010200
MESOTAENIACEAE	8710020000
MICRACTINIACEAE	8708030000
MICRASTERIAS	8710031100
MICROCYSTIS	8601010400
MICROSPORA	8703020100
MICROSPORACEAE	8703020000
MICROTATOBIOTES	7802000000
MISCHOCOCCACEAE	8903030000
MONOCILIACEAE	8904020000
MONOCOTYLEDONAE	8502000000
MONOSIGACEAE	9006020000
MONOSIGALES	9006000000
MOUGEOTIA	8710010100
MUSCI	7903000000
MYRIOPHYLLUM	8501070200
MYXOMYCETES	7601000000
MYXOMYCOTA	7600000000
MYXOSARCINA	8602010100
NAEGELIELLA	9003020100
NAEGELIELLACEAE	9003020000
NAIADACEAE	8502040000
NAIAS	8502040100
NAVICULA	9102070700
NAVICULACEAE	9102070000
NEIDIUM	9102070100
NEMALIONALES	9602000000
NEPHROSELMIDIACEAE	9501030000
NITELLA	8711010200
NITZSCHIA	9102100100
NITZSCHIACEAE	9102100000
NODULARIA	8603020200
NOSTOC	8603020100
NOSTOCACEAE	8603020000
NUPHAR	8501030200
NYMPHAEA	8501030100
NYMPHAEACEAE	8501030000
NYMPHOIDES	8501110200
OCHROMONADACEAE	9001060000
OCHROMONAS	9001060100
OEDOGONIACEAE	8706010000
OEDOGONIALES	8706000000
OEDOGONIUM	8706010200
OOCYSTACEAE	8708090000

OOCYSTIS	8708090100
OPEPHORA	9102030100
OSCILLATORIA	8603010100
OSCILLATORIACEAE	8603010000
OSCILLATORIALES	8603000000
PALMELLA	8702010200
PALMELLACEAE	8702010000
PANDORINA	8701040300
PANICULARIA	8502070500
PARACAPSA	8601020100
PEDIASTRUM	8708070100
PENIUM	8710031800
PENNALES	9102000000
PERANEMACEAE	8801030000
PERIDINIACEAE	9302030000
PERIDINIALES	9302000000
PERIDINIOPSIS	9302030200
PERIDINIUM	9302030100
PERONIELLA	8903040200
PERONIOPSIS	9102060300
PHACOMYXA	8708110100
PHACOTACEAE	8701030000
PHACUS	8801010300
PHAEOPHYTA	9200000000
PHAEOTHAMNIACEAE	9004010000
PHORMIDIUM	8603010200
PHYCOMYCETES	7701000000
PHYLLOSIPHONACEAE	8709010000
PHYTODINIACEAE	9304010000
PINNULARIA	9102070300
PLANCTOCOCCUS	8702010500
PLEODORINA	8701040400
PLEUROCAPSA	8602010200
PLEUROCAPSACEAE	8602010000
PLEUROCHLORIDACEAE	8903010000
PLEUROSIGMA	9102070900
PLEUROTAENIUM	8710030500
POA	8502070400
POLYBLEPHARIDACEAE	8701010000
POLYTOMA	8701020200
POTAMOGETON	8502030100
PROTOCOCCACEAE	8703050000
PROTOSIPHONACEAE	8708060000
PRYMNESIACEAE	9001070000
PSEUDANABAENA	8603010500
PSEUDOKEPHYRION	9001060900
PSEUDOTETRAEDRON	8903060100
PTERIDOSPERMOPHYTA	8300000000
PTEROPHYTA	8200000000
PYRAMIMONACEAE	8701070000
QUADRIGULA	8708090600
RADIOCOCCACEAE	8708110000

RHABDODERMA	8601011200
RHIZOCHLORIDALES	8901000000
RHIZOCHLORIS	8901010100
RHIZOCHRYSIDACEAE	9002010000
RHIZOCHRYSIDALES	9002000000
RHIZOCHRYSIS	9002010200
RHIZOSOLENIA	9101030100
RHIZOSOLENIACEAE	9101030000
RHODOMONAS	9501010100
RHODOPHYCEAE	9600000000
RHOPALODIA	9102090400
RIVULARIACEAE	8603050000
SAGITTARIA	8502060100
SALPINGOECA	9006010100
SALPINGOECACEAE	9006010000
SARRACENIACEAE	8501040000
SCENEDESMACEAE	8708100000
SCENEDESMUS	8708100100
SCHEUCHZERIA	8502050200
SCHEUCHZERIACEAE	8502050000
SCHIZOGONIACEAE	8705010000
SCHIZOGONIALES	8705000000
SCHIZOMERIDACEAE	8704020000
SCHIZOMYCETES	7801000000
SCHIZOMYCOPHYTA	7800000000
SCHROEDERIA	8708050100
SCIRPUS	8502080200
SCOTIELLA	8708090800
SCYTONEMA	8603030100
SCYTONEMATACEAE	8603030000
SELENASTRUM	8708090500
SIPHONALES	8709000000
SPARGANIACEAE	8502020000
SPARGANIUM	8502020100
SPHAEROCYSTIS	8702010300
SPHAEROPLEACEAE	8703080000
SPHAEROZOSMA	8710030700
SPHAGNIDEAE	7903010000
SPHENOPSIDA	8101000000
SPIROGYRA	8710010200
SPONDYLOMORACEAE	8701050000
SPONDYLOSIUM	8710030800
STAURASTRUM	8710031200
STAURODESMUS	8710031600
STAURONEIS	9102070800
STENOPTEROBIA	9102110300
STEPHANODISCUS	9101010200
STIGONEMA	8603040100
STIGONEMATACEAE	8603040000
STIPITOCOCCACEAE	8901010000
STROMBOMONAS	8801010400
STYLOCHRYSALLIS	9001061300

STYLODINIUM	9304010100
SURIRELLA	9102110100
SURIRELLACEAE	9102110000
SYNCRYPTACEAE	9001030000
SYNECHOCOCCUS	8601010900
SYNECHOCYSTIS	8601011400
SYNEDRA	9102040300
SYNURA	9001040100
SYNURACEAE	9001040000
TABELLARIA	9102010100
TABELLARIACEAE	9102010000
TETRACYCLUS	9102010200
TETRAEDRON	8708090700
TETRALLANTOS	8708100200
TETRASPORA	8702020100
TETRASPORACEAE	8702020000
TETRASPORALES	8702000000
THAMNIOCHAETE	8703040100
THOREACEAE	9602030000
TOLYPELLA	8711010300
TOLYPOTHRIX	8603030200
TRACHELOMONAS	8801010100
TRENTEPOHLIACEAE	8703070000
TRIBONEMA	8904010100
TRIBONEMATACEAE	8904010000
TRICHODESMIUM	8603010300
TRIGLOCHIN	8502050100
TRIPLOCERAS	8710031000
TYPHA	8502010100
TYPHACEAE	8502010000
ULOTHRIX	8703010100
ULOTRICHACEAE	8703010000
ULOTRICHALES	8703000000
ULVACEAE	8704010000
ULVALES	8704000000
UROCOCCUS	9303010100
UROGLENA	9001060400
UROGLENOPSIS	9001060500
UTRICULARIA	8501080100
VAUCHERIACEAE	8905020000
VOLVOCACEAE	8701040000
VOLVOCALES	8701000000
VOLVOX	8701040200
WESTELLA	8708090400
XANTHIDIUM	8710030900
XANTHOPHYCEAE	8900000000
ZANNICHELLIA	8502030200
ZANNICHELLIACEAE	8502030000
ZYGNEMA	8710010300
ZYGNEMATACEAE	8710010000
ZYGNEMATALES	8710000000

APPENDIX 3: SYSTEMATICALLY STRUCTURED LIST OF TAXA AND CORRESPONDING CODES ORDERED BY CODE SEQUENCE (ONLY NUMBERS 1-99 ARE SHOWN IN THE FIELDS)

Slime Molds

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Myxomycota					76
	Myxomycetes				76 1
	Acrasiomycetes				76 2
	Labyrinthulomycetes				76 3

Fungi

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Eumycota					77
	Phycomycetes				77 1
	Ascomycetes				77 2
	Basidiomycetes				77 3
	Deuteromycetes				77 4

Bacteria and Viruses

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Schizomycophyta					78				
	Schizomycetes				78	1			
	Microtatobiotes				78	2			

Liverworts, Hornworts, and Mosses

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Bryophyta					79
	Hepaticae				79 1
	Anthocerotae				79 2
	Musci				79 3
		Sphagnideae			79 3 1

Club Mosses and Horsetails

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Lycophyta					80				
Arthrophyta					81				
	Sphenopsida				81	1			
		Equisetales			81	1	1		
			Equisetum		81	1	1	1	
				fluviatile	81	1	1	1	1

True Ferns, Preferns and Seed Ferns

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Pterophyta					82
Pteridospermophyta					83

Conifers

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Coniferophyta					84

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Anthophyta					85				
	Dicotyledonae				85	1			
		Ceratophyllaceae			85	1	1		
			Ceratophyllum		85	1	1	1	
				demersum	85	1	1	1	1
		Cabombaceae			85	1	2		
			Brasenia		85	1	2	1	
				schreberi	85	1	2	1	1
		Nymphaeaceae			85	1	3		
			Nymphaea		85	1	3	1	
				odorata*	85	1	3	1	1
			Nuphar		85	1	3	2	
				variegatum**	85	1	3	2	1

---

*white water lily
**yellow water lily

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Sarraceniaceae			85	1	4		
		Droseraceae			85	1	5		
		Callitrichaceae			85	1	6		
			Callitriche		85	1	6	1	
				heterophylla	85	1	6	1	1
		Haloragidaceae			85	1	7		
			Hippurus		85	1	7	1	
			Myriophyllum		85	1	7	2	

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Lentibulariaceae			85	1	8		
			Utricularia		85	1	8	1	
				macrorhiza= vulgaris	85	1	8	1	1
		Lobeliaceae			85	1	9		
			Lobelia		85	1	9	1	
				dortmanna	85	1	9	1	1
		Compositae			85	1	10		
			Aster		85	1	10	1	
				nemoralis	85	1	10	1	1
		Menyanthaceae			85	1	11		
			Menyanthes		85	1	11	1	
				trifoliata	85	1	11	1	1
			Nymphoides		85	1	11	2	

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
	Moncotyledonae				85	2			
		Typhaceae			85	2	1		
			Typha		85	2	1	1	
				latifolia	85	2	1	1	1
				angustifolia	85	2	1	1	2

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Sparganiaceae			85	2	2		
			Sparganium		85	2	2	1	
				eurycarpum	85	2	2	1	1
				androcladum	85	2	2	1	2
				diversifolium	85	2	2	1	3
				acaule	85	2	2	1	4
				angustifolium	85	2	2	1	5
				hyperboreum	85	2	2	1	6
				minimum	85	2	2	1	7

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Zannichelliaceae			85	2	3		
			Potamogeton		85	2	3	1	
				natans	85	2	3	1	1
				oakesianus	85	2	3	1	2
				epihydrus	85	2	3	1	3
				alpinus	85	2	3	1	4
				perfoliatus	85	2	3	1	5
			Zannichellia		85	2	3	2	
				palustris	85	2	3	2	1
		Naiadaceae			85	2	4		
			Naias		85	2	4	1	
				flexilis	85	2	4	1	1

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Scheuchzeriaceae			85	2	5		
			Triglochin		85	2	5	1	
				palustris	85	2	5	1	1
				maritima	85	2	5	1	2
			Scheuchzeria		85	2	5	2	
				palustris	85	2	5	2	1
		Alismaceae			85	2	6		
			Sagittaria		85	2	6	1	
				latifolia	85	2	6	1	1
				graminea	85	2	6	1	2

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Gramineae			85	2	7		
			Homalocenchrus		85	2	7	1	
				oryzoides	85	2	7	1	1
			Calamagrostis		85	2	7	2	
				canadensis	85	2	7	2	1
			Catabrosa		85	2	7	3	
				aquatica	85	2	7	3	1
			Poa		85	2	7	4	
				triflora	85	2	7	4	1
			Panicularia= Glyceria		85	2	7	5	
				canadensis	85	2	7	5	1
				borealis	85	2	7	5	2

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Cyperaceae			85	2	8		
			Eleocharis		85	2	8	1	
				palustris	85	2	8	1	1
			Scirpus		85	2	8	2	
				subterminalis	85	2	8	2	1
				americanus	85	2	8	2	2
				validus	85	2	8	2	3
				occidentalis	85	2	8	2	4
				rufus	85	2	8	2	5
				microcarpus	85	2	8	2	6
				cyperinus	85	2	8	2	7
			Carex		85	2	8	3	
				stipata	85	2	8	3	1
				atlantica	85	2	8	3	2
				leptalea	85	2	8	3	3
				aquatilis	85	2	8	3	4
				gynandra	85	2	8	3	5
				crinita	85	2	8	3	6
				lacustris	85	2	8	3	7
				lasiocarpa	85	2	8	3	8
				flava	85	2	8	3	9
				folliculata	85	2	8	3	10
				retrorsa	85	2	8	3	11
				hystricina	85	2	8	3	12
				comosa	85	2	8	3	13
				frankii	85	2	8	3	14
				intumescens	85	2	8	3	15
				asa-grayi	85	2	8	3	16
				rostrata	85	2	8	3	17
		Araceae			85	2	9		

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Lemnaceae			85	2	10		
			Lemna		85	2	10	1	
		Eriocaulaceae			85	2	11		
			Eriocaulon		85	2	11	1	
				septangulare	85	2	11	1	1

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Juncaceae			85	2	12		
			Juncus		85	2	12	1	
				effusus	85	2	12	1	1
				conglomeratus	85	2	12	1	2
				filiformis	85	2	12	1	3
				bufonius	85	2	12	1	4
				dudleyi	85	2	12	1	5
				militaris	85	2	12	1	6
				articulatus	85	2	12	1	7
		Melanthaceae			85	2	13		

Flowering Plants

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Liliaceae			86	2	14		
		Convallariaceae			86	2	15		
		Iridaceae			86	2	16		
			Iris		85	2	16	1	
				versicolor	85	2	16	1	1
				hookeri=setosa	85	2	16	1	2

Blue-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Cyanophyta					86				
	Chroococcales				86	1			
		Chroococcaceae			86	1	1		
			Chroococcus		86	1	1	1	
				limneticus	86	1	1	1	1
				prescottii	86	1	1	1	2
			Merismopedia		86	1	1	2	
				elegans	86	1	1	2	1
				major	86	1	1	2	2
				glauca	86	1	1	2	3
				trolleri	86	1	1	2	4
				tenuissima	86	1	1	2	5
				convoluta	86	1	1	2	6
			Gloeocapsa		86	1	1	3	
				major	86	1	1	3	1
				punctata	86	1	1	3	2

Blue-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Microcystis= Polycystis		86	1	1	4	
				aeruginosa	86	1	1	4	1
				flos-aquae	86	1	1	4	2
				robusta	86	1	1	4	3
			Aphanocapsa		86	1	1	5	
				elachista	86	1	1	5	1
				pulchra	86	1	1	5	2
			Eucapsis		86	1	1	6	
				alpina	86	1	1	6	1
			Coelosphaerium		86	1	1	7	
				naegelianum	86	1	1	7	1
			Dactylococcopsis		86	1	1	8	
				acicularis	86	1	1	8	1

Blue-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
			Synechococcus		86	1	1	9	
			Holopedium		86	1	1	10	
				irregulare	86	1	1	10	1
			Aphanothece		86	1	1	11	
				castagnei	86	1	1	11	1
				nidulans	86	1	1	11	2
				alascense	86	1	1	11	3
			Rhabdoderma		86	1	1	12	
				lineare	86	1	1	12	1
				sigmoidea	86	1	1	12	2
				irregulare	86	1	1	12	3
			Gomphosphaeria		86	1	1	13	
				lacustris	86	1	1	13	1
				aponina	86	1	1	13	2
			Synechocystis		86	1	1	14	
				aquatilis	86	1	1	14	1
			Gloeothece		86	1	1	15	

Blue-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Entophysalidaceae			86	1	2		
			Paracapsa		86	1	2	1	
	Chamaesiphonales				86	2			
		Pleurocapsaceae			86	2	1		
			Myxosarcina		86	2	1	1	
			Pleurocapsa		86	2	1	2	
				minor	86	2	1	2	1
		Dermocarpaceae			86	2	2		
		Chamaesiphonaceae			86	2	3		
			Chamaesiphon		86	2	3	1	
	Oscillatoriales				86	3			
		Oscillatoriaceae			86	3	1		
			Oscillatoria		86	3	1	1	

Blue-Green Algae

					Code Fields				
Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	00	00	00	00	00
			Phormidium		86	3	1	2	
			Trichodesmium		86	3	1	3	
				lacustre	86	3	1	3	1
			Lyngbya		86	3	1	4	
				contorta	86	3	1	4	1
				mucicola	86	3	1	4	2
			Pseudanabaena		86	3	1	5	
				catenata	86	3	1	5	1
		Nostocaceae			86	3	2		
			Nostoc		86	3	2	1	
			Nodularia		86	3	2	2	

Blue-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Anabaena		86	3	2	3	
				flos-aquae	86	3	2	3	1
				limnetica	86	3	2	3	2
			Aphanizomenon		86	3	2	4	
				flos-aquae	86	3	2	4	1
		Scytonemataceae			86	3	3		
			Scytonema		86	3	3	1	
			Tolypothrix		86	3	3	2	
		Stigonemataceae			86	3	4		
			Stigonema		86	3	4	1	
				ocellatus	86	3	4	1	1
			Hapalosiphon		86	3	4	2	
				hibernicus	86	3	4	2	1

Blue-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
		Rivulariaceae			86 3 5
			Calothrix		86 3 5 1
		Mastigocladaceae			86 3 6
			Mastigocladus		86 3 6 1
				lamellosus	86 3 6 1 1

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Chlorophyceae					87				
	Volvocales				87	1			
		Polyblepharidaceae			87	1	1		
		Chlamydomonadaceae			87	1	2		
			Chlamydomonas		87	1	2	1	
				gleopara	87	1	2	1	1
				frigida	87	1	2	1	2
				dinobryoni	87	1	2	1	3
			Polytoma		87	1	2	2	
			Chloromonas		87	1	2	3	
			Carteria		87	1	2	4	
		Phacotaceae			87	1	3		

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Volvocaceae			87	1	4		
			Gonium		87	1	4	1	
				sociale	87	1	4	1	1
			Volvox		87	1	4	2	
			Pandorina		87	1	4	3	
				morum	87	1	4	3	1
			Pleodorina		87	1	4	4	
			Eudorina		87	1	4	5	
				elegans	87	1	4	5	1

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Spondylomoraceae			87	1	5		
		Haematococcaceae			87	1	6		
		Pyramimonaceae			87	1	7		
			Gyromitus		87	1	7	1	
	Tetrasporales				87	2			
		Palmellaceae			87	2	1		
			Gloeocystis		87	2	1	1	
				major	87	2	1	1	1
				ampla	87	2	1	1	2
				gigas	87	2	1	1	3
				vesiculosa	87	2	1	1	4
				aponina	87	2	1	1	5
				planctonica	87	2	1	1	6
			Palmella		87	2	1	2	
				mucosa	87	2	1	2	1

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Sphaerocystis		87	2	1	3	
				schroeteri	87	2	1	3	1
			Asterococcus		87	2	1	4	
				limneticus	87	2	1	4	1
			Planctococcus		87	2	1	5	
				alsius	87	2	1	5	1
				gelatinosa	87	2	1	5	2
		Tetrasporaceae			87	2	2		
			Tetraspora		87	2	2	1	
				lamellosa	87	2	2	1	1
				lacustris	87	2	2	1	2
				minumum	87	2	2	1	3
		Chlorangiaceae			87	2	3		

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Coccomyxaceae			87	2	4		
			Elakatothrix		87	2	4	1	
				gelatinosa	87	2	4	1	1
	Ulotrichales				87	3			
		Ulotrichaceae			87	3	1		
			Ulothrix		87	3	1	1	
			Binuclearia		87	3	1	2	
				tectorum	87	3	1	2	1
		Microsporaceae			87	3	2		
			Microspora		87	3	2	1	
		Cylindrocapsaceae			87	3	3		
			Cylindrocapsa		87	3	3	1	
				geminella	87	3	3	1	1

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Chaetophoraceae			87	3	4		
			Thamniochaete		87	3	4	1	
			Chaetophora		87	3	4	2	
		Protococcaceae			87	3	5		
		Coleochaetaceae			87	3	6		
			Chaetosphaeridium		87	3	6	1	
				pringsheimii	87	3	6	1	1
		Trentepohliaceae			87	3	7		

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Sphaeropleaceae			87	3	8		
	Ulvales				87	4			
		Ulvaceae			87	4	1		
		Schizomeridaceae			87	4	2		
	Schizogoniales				87	5			
		Schizogoniaceae			87	5	1		

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Oedogoniales				87	6			
		Oedogoniaceae			87	6	1		
			Bulbochaete		87	6	1	1	
			Oedogonium		87	6	1	2	
	Cladophorales				87	7			
		Cladophoraceae			87	7	1		
	Chlorococcales				87	8			
		Chlorococcaceae			87	8	1		
		Endosphaeraceae			87	8	2		

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Micractiniaceae			87	8	3		
			Golenkiniopsis		87	8	3	1	
			Golenkinia		87	8	3	2	
				radiata	87	8	3	2	1
		Dictyosphaeriaceae			87	8	4		
			Dictyosphaerium		87	8	4	1	
				pulchellum	87	8	4	1	1
				ehrenbergianum	87	8	4	1	2
			Dimorphococcus		87	8	4	2	
				lunatus	87	8	4	2	1
			Botryococcus		87	8	4	3	
				braunii	87	8	4	3	1

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Characiaceae			87	8	5		
			Schroederia		87	8	5	1	
				setigera	87	8	5	1	1
				judayi	87	8	5	1	2
			Characium		87	8	5	2	
				ambiguum	87	8	5	2	1
				ornithocephalum	87	8	5	2	2
		Protosiphonaceae			87	8	6		
		Hydrodictyaceae			87	8	7		
			Pediastrum		87	8	7	1	
				boryanum	87	8	7	1	1
				tetras	87	8	7	1	2
				obtusum	87	8	7	1	3
				simplex	87	8	7	1	4

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
		Coelastraceae			87 8 8
			Coelastrum		87 8 8 1
				braunii	87 8 8 1 1
				scabrum	87 8 8 1 2
				cambricum	87 8 8 1 3
				microporum	87 8 8 1 4
		Oocystaceae			87 8 9
			Oocystis		87 8 9 1
				subtilissima	87 8 9 1 1
				lacustris	87 8 9 1 2
				elliptica	87 8 9 1 3
			Kirchneriella		87 8 9 2
				obesa	87 8 9 2 1
			Ankistrodesmus		87 8 9 3
				falcatus	87 8 9 3 1
				fractus	87 8 9 3 2
				spiralis	87 8 9 3 3

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Westella		87	8	9	4	
				botryoides	87	8	9	4	1
				linearis	87	8	9	4	2
			Selenastrum		87	8	9	5	
				minuta	87	8	9	5	1
			Quadrigula		87	8	9	6	
				lacustris	87	8	9	6	1
				closteroides	87	8	9	6	2
			Tetraedron		87	8	9	7	
				minuta	87	8	9	7	1
				caudatum	87	8	9	7	2
				regulare	87	8	9	7	3
				minimum	87	8	9	7	4
				pentaedricum	87	8	9	7	5
			Scotiella		87	8	9	8	
				nivalis	87	8	9	8	1

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Lagerheimia=Chodatella		87	8	9	9	
				quadriseta	87	8	9	9	1
		Scenedesmaceae			87	8	10		
			Scenedesmus		87	8	10	1	
				bijuga	87	8	10	1	1
				denticulatus	87	8	10	1	2
				quadricauda	87	8	10	1	3
				abundans	87	8	10	1	4
				dimorphus	87	8	10	1	5
			Tetrallantos		87	8	10	2	

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Crucigenia		87	8	10	3	
				quadrata	87	8	10	3	1
				rectangularis	87	8	10	3	2
				tetrapedia	87	8	10	3	3
		Radiococcaceae			87	8	11		
			Phacomyxa		87	8	11	1	
				sphagnicola	87	8	11	1	1
	Siphonales				87	9			
		Phyllosiphonaceae			87	9	1		
		Dichotomosiphonaceae			87	9	2		
	Zygnematales				87	10			
		Zygnemataceae			87	10	1		
			Mougeotia		87	10	1	1	
			Spirogyra		87	10	1	2	

Green Algae (including desmids and stoneworts)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Zygnema		87	10	1	3	
		Mesotaeniaceae			87	10	2		
			Gonatozygon		87	10	2	1	
				monotaenium	87	10	2	1	1
				kihnahani	87	10	2	1	2
			Cylindrocystis		87	10	2	2	1

Desmids (green algae)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	.00	00	00
		Desmidiaceae			87	10	3		
			Arthrodesmus		87	10	3	1	
				tenuissimus	87	10	3	1	1
				incus	87	10	3	1	2
				triangularis	87	10	3	1	3
				ralfsii	87	10	3	1	4
				subulatus	87	10	3	1	5
				validus	87	10	3	1	6
			Cosmarium		87	10	3	2	
				punctuatum	87	10	3	2	1
				contractum	87	10	3	2	2
				margaritatum	87	10	3	2	3
				bioculatum	87	10	3	2	4
				abruptum	87	10	3	2	5
			Desmidium		87	10	3	3	
				cylindricum	87	10	3	3	1
				grevillii	87	10	3	3	2
				baileyi	87	10	3	3	3

Desmids (green algae)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
			Euastrum		87	10	3	4	
				didelta	87	10	3	4	1
				ansatum	87	10	3	4	2
				crassum	87	10	3	4	3
				pinnatum	87	10	3	4	4
				verrucosum	87	10	3	4	5
				abruptum	87	10	3	4	6
				elegans	87	10	3	4	7
			Pleurotaenium		87	10	3	5	
				nodosum	87	10	3	5	1
				nodulosum	87	10	3	5	2
				coronatum	87	10	3	5	3
				trabecula	87	10	3	5	4
				ehrenbergii	87	10	3	5	5
				verrucosum	87	10	3	5	6
			Bambusina		87	10	3	6	
				brebissonii	87	10	3	6	1
				barreri	87	10	3	6	2
			Sphaerozosma		87	10	3	7	
				excavata	87	10	3	7	1

Desmids (green algae)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
			Spondylosium		87	10	3	8	
				planum	87	10	3	8	1
				pulchrum	87	10	3	8	2
			Xanthidium		87	10	3	9	
				antilopaeum	87	10	3	9	1
				armatum	87	10	3	9	2
				cristatum	87	10	3	9	3
				pseudobengalicum	87	10	3	9	4
			Triploceras		87	10	3	10	
				gracile	87	10	3	10	1
				verticulatum	87	10	3	10	2
			Micrasterias		87	10	3	11	
				laticepts	87	10	3	11	1
				mahabuleshwarensis	87	10	3	11	2
				apiculata	87	10	3	11	3
				muricata	87	10	3	11	4
				denticulata	87	10	3	11	5
				foliaceae	87	10	3	11	6
				johnsonii	87	10	3	11	7
				radiata	87	10	3	11	9
				radiosa	87	10	3	11	10

Desmids (green algae)

					Code Fields				
Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	00	00	00	00	00
				rotata	87	10	3	11	11
				conferta	87	10	3	11	12
				jennerii	87	10	3	11	13
				papillifera	87	10	3	11	14
				mucosa	87	10	3	11	15
			Staurastrum		87	10	3	12	
				curvatum	87	10	3	12	1
				anatinum	87	10	3	12	2
				ankyroides	87	10	3	12	3
				artistiferum	87	10	3	12	4
				brevispinum	87	10	3	12	5
				comptum	87	10	3	12	6
				furcigerum	87	10	3	12	7
				grallatorium	87	10	3	12	8
				johnsonii	87	10	3	12	9
				lacustre	87	10	3	12	10
				manfeldtii	87	10	3	12	11
				mucronatum	87	10	3	12	12
				natator	87	10	3	12	13
				ophiura	87	10	3	12	14
				pachyrhynchum	87	10	3	12	15
				paradoxum	87	10	3	12	16
				pentacerum	87	10	3	12	17
				megacanthum	87	10	3	12	18
				gladiosum	87	10	3	12	19
				leptocladum	87	10	3	12	20
				limneticum	87	10	3	12	21
				avicula	87	10	3	12	22
				grande	87	10	3	12	23
				arctiscon	87	10	3	12	24
				aversum	87	10	3	12	25
				boreale	87	10	3	12	26
				cingulum	87	10	3	12	27
				dickiei	87	10	3	12	28

Desmids (green algae)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
				elongatum	87	10	3	12	29
				o'mearii	87	10	3	12	30
				pelagicum	87	10	3	12	31
				tetracerum	87	10	3	12	32
				gracile	87	10	3	12	33
			Hyalotheca		87	10	3	13	
				dissiliens	87	10	3	13	1
				quadridens	87	10	3	13	2
				mucosa	87	10	3	13	3
			Closterium		87	10	3	14	
				setaceum	87	10	3	14	1
				kutzingii	87	10	3	14	2
				parientana	87	10	3	14	3
			Groenbladia		87	10	3	15	
				neglecta	87	10	3	15	1

Desmids (green algae)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Staurodesmus		87	10	3	16	
			Gymnozyga		87	10	3	17	
				moniliformis	87	10	3	17	1
			Penium		87	10	3	18	
				obtusa	87	10	3	18	1
			Amscottia		87	10	3	19	
				mira	87	10	3	19	1

Stoneworts (green algae)

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Charophyceae				87	11			
		Characeae			87	11	1		
			Chara		87	11	1	1	
			Nitella		87	11	1	2	
			Tolypella		87	11	1	3	

Euglenids

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Euglenophyceae					88				
	Euglenales				88	1			
		Euglenaceae			88	1	1		
			Trachelomonas		88	1	1	1	
			Euglena		88	1	1	2	
			Phacus		88	1	1	3	
			Strombomonas		88	1	1	4	
		Astasiaceae			88	1	2		

Euglenids

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
		Peranemaceae			88 1 3
	Colaciales				88 2
		Coliaciaceae			88 2 1
			Colacium		88 2 1 1
				calvum	88 2 1 1 1
				vesiculosum	88 2 1 1 2

Yellow-Green Algae

					Code Fields				
Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	00	00	00	00	00
Xanthophyceae					89				
	Rhizochloridales				89	1			
		Stipitococcaceae			89	1	1		
			Rhizochloris		89	1	1	1	
	Heterocapsales				89	2			
		Chlorosaccaceae			89	2	1		
		Malleodendraceae			89	2	2		
	Heterococcales				89	3			
		Pleurochloridaceae			89	3	1		
		Gloeobotrydiaceae			89	3	2		

Yellow-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Mischococcaceae			89	3	3		
		Characiopsidaceae			89	3	4		
			Characiopsis		89	3	4	1	
			Peroniella		89	3	4	2	
				hyalothecae	89	3	4	2	1
		Chloropediaceae			89	3	5		
		Centritractaceae			89	3	6		
			Pseudotetraedron		89	3	6	1	
				neglectum	89	3	6	1	1
		Chlorotheciaceae			89	3	7		

Yellow-Green Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
	Heterotrichales				89	4			
		Tribonemataceae			89	4	1		
			Tribonema		89	4	1	1	
		Monociliaceae			89	4	2		
	Heterosiphonales				89	5			
		Botrydiaceae			89	5	1		
		Vaucheriaceae			89	5	2		

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Chrysophyceae					90				
	Chrysomonadales				90	1			
		Chromulinaceae			90	1	1		
			Kephyrion		90	1	1	1	
				cinctum	90	1	1	1	1
				littorale	90	1	1	1	2
				borale	90	1	1	1	3
				valkanovii	90	1	1	1	4
				fulvum	90	1	1	1	5
			Chromulina		90	1	1	2	
				minuta	90	1	1	2	1
				glacialis	90	1	1	2	2
			Bicoeca		90	1	1	3	
				mitra	90	1	1	3	1
				cylindrica	90	1	1	3	2
			Chrysococcus		90	1	1	4	
				radians	90	1	1	4	1

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Chrysopyxis		90	1	1	5	
			Codomonas		90	1	1	6	
				annulata	90	1	1	6	1
		Mallomonadaceae			90	1	2		
			Chrysosphaerella		90	1	2	1	
				longispina	90	1	2	1	1
			Mallomonas		90	1	2	2	
				liebneri	90	1	2	2	1
				elongata	90	1	2	2	2
				pumillio	90	1	2	2	3
				akrokomonas	90	1	2	2	4
				lynchensis	90	1	2	2	5
				tonsurata	90	1	2	2	6
				pseudocoronata	90	1	2	2	7
				caudata	90	1	2	2	8

Golden Algae

					Code Fields				
Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	00	00	00	00	00
		Syncryptaceae			90	1	3		
		Synuraceae			90	1	4		
			Synura		90	1	4	1	
				adamsii	90	1	4	1	1
				caroliniana	90	1	4	1	2
				urella	90	1	4	1	3
				lapponica	90	1	4	1	4
			Chrysodidymus		90	1	4	2	
			Conradiella		90	1	4	3	

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Coccolithophoridaceae			90	1	5		
		Ochromonadaceae			90	1	6		
			Ochromonas		90	1	6	1	
				globosa	90	1	6	1	1
			Cyclonexis		90	1	6	2	
			Chrysoxys		90	1	6	3	
				major	90	1	6	3	1
			Uroglena		90	1	6	4	
				volvox	90	1	6	4	1

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Uroglenopsis		90	1	6	5	
				americana	90	1	6	5	1
			Hyalobryon		90	1	6	6	
			Epipyxis		90	1	6	7	
				diplostoma	90	1	6	7	1
				ramosa	90	1	6	7	2
				utriculus	90	1	6	7	3
			Dinobryon		90	1	6	8	
				bavaricum	90	1	6	8	1
				divergens	90	1	6	8	2
				sertularia	90	1	6	8	3
				sociale	90	1	6	8	4
				cylindricum	90	1	6	8	5
				borgei	90	1	6	8	6

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
			Pseudokephyrion		90	1	6	9	
				planctonicum	90	1	6	9	1
				minutissimum	90	1	6	9	2
				latum	90	1	6	9	3
				skujae	90	1	6	9	4
			Chrysolykos		90	1	6	10	
				skujai	90	1	6	10	1
				planctonicus	90	1	6	10	2
			Chrysoikos		90	1	6	11	
				bicornis	90	1	6	11	1
			Dendromonas		90	1	6	12	
				cryptostylis	90	1	6	12	1
			Stylochrysallis		90	1	6	13	
				parasitica	90	1	6	13	1

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Prymnesiaceae			90	1	7		
			Chrysochromulina		90	1	7	1	
				parva	90	1	7	1	1
	Rhizochrysidales				90	2			
		Rhizochrysidaceae			90	2	1		
			Chrysamoeba		90	2	1	1	
				radians	90	2	1	1	1
			Rhizochrysis		90	2	1	2	
				limnetica	90	2	1	2	1
			Bitrichia		90	2	1	3	
				chodati	90	2	1	3	1

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Heliochrysis		90	2	1	4	
				radians	90	2	1	4	1
			Lagynion		90	2	1	5	
				fulvum	90	2	1	5	1
				scherffeli	90	2	1	5	2
				oblongatum	90	2	1	5	3
	Chrysocapsales				90	3			
		Chrysocapsaceae			90	3	1		
			Chrysocapsa		90	3	1	1	
				planctonica	90	3	1	1	1
		Naegeliellaceae			90	3	2		
			Naegeliella		90	3	2	1	
				flagellifera	90	3	2	1	1

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Hydruraceae			90	3	3		
	Chrysotrichales				90	4			
		Phaeothamniaceae			90	4	1		
	Chrysosphaerales				90	5			
		Chrysosphaeraceae			90	5	1		
	Monosigales=Choanoflagellate				90	6			
		Salpingoecaceae			90	6	1		
			Salpingoeca		90	6	1	1	
				frequentissima	90	6	1	1	1

Golden Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Monosigaceae			90	6	2		
			Desmarella		90	6	2	1	
				moniliformis	90	6	2	1	1
				irregularis	90	6	2	1	2

Diatoms

					Code Fields				
Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	00	00	00	00	00
Bacillariophyceae					91				
	Centrales				91	1			
		Coscinodiscaceae			91	1	1		
			Cyclotella		91	1	1	1	
				nana	91	1	1	1	1
				comta	91	1	1	1	2
				michiganiana	91	1	1	1	3
				bodanica	91	1	1	1	4
				kutzingiana	91	1	1	1	5
				meneghiniana	91	1	1	1	6
			Stephanodiscus		91	1	1	2	
				astrea	91	1	1	2	1
			Melosira		91	1	1	3	
				granulata	91	1	1	3	1
				distans	91	1	1	3	2
				italica	91	1	1	3	3
			Coscinodiscus		91	1	1	4	
				lacustris	91	1	1	4	1
		Eupodiscaceae			91	1	2		

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Rhizosoleniaceae			91	1	3		
			Rhizosolenia		91	1	3	1	
				eriensis	91	1	3	1	1
		Chaetoceraceae			91	1	4		
		Biddulphiaceae			91	1	5		
			Biddulphia		91	1	5	1	
		Anaulaceae			91	1	6		

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
	Pennales				91	2			
		Tabellariaceae			91	2	1		
			Tabellaria		91	2	1	1	
				fenestrata	91	2	1	1	1
				flocculosa	91	2	1	1	2
			Tetracyclus		91	2	1	2	
				lacustris	91	2	1	2	1
		Meridionaceae			91	2	2		
			Meridion		91	2	2	1	
				circulare	91	2	2	1	1
		Diatomaceae			91	2	3		
			Opephora		91	2	3	1	
				pacifica	91	2	3	1	1
			Diatoma		91	2	3	2	
				vulgare	91	2	3	2	1
				elongatum	91	2	3	2	2

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Fragilariaceae			91	2	4		
			Asterionella		91	2	4	1	
				formosa	91	2	4	1	1
			Fragilaria		91	2	4	2	
				capucina	91	2	4	2	1
				crotonensis	91	2	4	2	2
				virescens	91	2	4	2	3
				construens	91	2	4	2	4
				pinnata	91	2	4	2	5
			Synedra		91	2	4	3	
				acus	91	2	4	3	1
				rumpens	91	2	4	3	2
				delitissima	91	2	4	3	3
				filiformis	91	2	4	3	4
				ulna	91	2	4	3	5
				capitellata	91	2	4	3	6
				capitata	91	2	4	3	7
				nana	91	2	4	3	8
			Centronella		91	2	4	4	
				reichelti	91	2	4	4	1

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Eunotiaceae			91	2	5		
			Ceratoneis		91	2	5	1	
			Eunotia		91	2	5	2	
				denticulata	91	2	5	2	1
				binale	91	2	5	2	2
				flexuosa	91	2	5	2	3
				lunaris	91	2	5	2	4
				perpussilla	91	2	5	2	5
				pectinalis	91	2	5	2	6
				praemonas	91	2	5	2	7
				sudetica	91	2	5	2	8
				caespitosa	91	2	5	2	9
				naegelii	91	2	5	2	10
			Actinella		91	2	5	3	
				punctata	91	2	5	3	1

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code				
					FTOTCS				
					00	00	00	00	00
			Amphicampa		91	2	5	4	
				hemicyclus	91	2	5	4	1
		Achnanthaceae			91	2	6		
			Achnanthes		91	2	6	1	
				depressa	91	2	6	1	1
				laevis	91	2	6	1	2
				lanceolata	91	2	6	1	3
				linearis	91	2	6	1	4
				microcephala	91	2	6	1	5
				neticus	91	2	6	1	6
			Cocconeis		91	2	6	2	
				plancentula	91	2	6	2	1
			Peroniopsis		91	2	6	3	
				heribaudii	91	2	6	3	1
		Naviculaceae			91	2	7		
			Neidium		91	2	7	1	
				affine	91	2	7	1	1

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code				
					Fields				
					00	00	00	00	00
			Gyrosigma		91	2	7	2	
			Pinnularia		91	2	7	3	
				arca	91	2	7	3	1
				major	91	2	7	3	2
				lata	91	2	7	3	3
				divergens	91	2	7	3	4
				stomatophora	91	2	7	3	5
				arctica	91	2	7	3	6
			Anomoeoneis		91	2	7	4	
				brachysira	91	2	7	4	1
				serians	91	2	7	4	2

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Amphipleura		91	2	7	5	
				pellucida	91	2	7	5	1
			Frustulia		91	2	7	6	
				rhomboides	91	2	7	6	1
				vulgaris	91	2	7	6	3
			Navicula		91	2	7	7	
				radiosa	91	2	7	7	1
				cryptocephala	91	2	7	7	2
				cuspidata	91	2	7	7	3
			Stauroneis		91	2	7	8	
				phoenicenteron	91	2	7	8	1
				ancepts	91	2	7	8	2

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Pleurosigma		91	2	7	9	
			Caloneis		91	2	7	10	
				ladogensis	91	2	7	10	1
			Mastogloia		91	2	7	11	
				smithii	91	2	7	11	1
			Diploneis		97	2	7	12	
		Gomphonemataceae			91	2	8		
			Gomphonema		91	2	8	1	
				angustatum	91	2	8	1	1
				gracile	91	2	8	1	2
				lanceolatum	91	2	8	1	3
				montanum	91	2	8	1	4
			Gomphoneis		91	2	8	2	

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Cymbellaceae			91	2	9		
			Cymbella		91	2	9	1	
				caespitosa	91	2	9	1	1
				cistula	91	2	9	1	2
				ehrenbergii	91	2	9	1	3
				tumidula	91	2	9	1	4
				lanceolata	91	2	9	1	5
			Amphora		91	2	9	2	
				ovalis	91	2	9	2	1
			Epithemia		91	2	9	3	
			Rhopalodia		91	2	9	4	
				gibba	91	2	9	4	1

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Nitzschiaceae			91	2	10		
			Nitzschia		91	2	10	1	
				acicularis	91	2	10	1	1
				capitellata	91	2	10	1	2
				sigma	91	2	10	1	3
				sigmoidea	91	2	10	1	4
				sinuata	91	2	10	1	5
				vermicularis	91	2	10	1	6
				scalaris	91	2	10	1	7
				closterium	91	2	10	1	8
			Hantzschia		91	2	10	2	
				amphioxys	91	2	10	2	1
			Denticula		91	2	10	3	
		Surirellaceae			91	2	11		
			Surirella		91	2	11	1	
				robusta	91	2	11	1	1

Diatoms

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
			Cymatopleura		91	2	11	2	
				solea	91	2	11	2	1
			Stenopterobia		91	2	11	3	
				intermedia	91	2	11	3	1

Brown Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Phaeophyta					92

Dinoflagellates

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Dinophyceae					93				
	Gymnodiniales				93	1			
		Gymnodiniaceae			93	1	1		
			Gymnodinium		93	1	1	1	
				uberrimum	93	1	1	1	1
				varians	93	1	1	1	2
				ordinatum	93	1	1	1	3
	Peridiniales				93	2			
		Glenodiniaceae			93	2	1		
			Glenodinium		93	2	1	1	
				quadridens	93	2	1	1	1
		Gonyaulacaceae			93	2	2		
		Peridiniaceae			93	2	3		
			Peridinium		93	2	3	1	
				cinctum	93	2	3	1	1
				limbatum	93	2	3	1	2
				pusillum	93	2	3	1	3
			Peridiniopsis		93	2	3	2	

Dinoflagellates

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Ceratiaceae			93	2	4		
			Ceratium		93	2	4	1	
				caroliniana	93	2	4	1	1
				hirudinella	93	2	4	1	2
	Dinocapsales				93	3			
		Gloeodiniaceae			93	3	1		
			Urococcus		93	3	1	1	
				insignis	93	3	1	1	1
	Dinococcales				93	4			
		Phytodiniaceae			93	4	1		
			Stylodinium		93	4	1	1	
				globosum	93	4	1	1	1
		Blastodiniaceae			93	4	2		

Chloromonads

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Chloromonadophyceae					94
	Chloromonadales				94 1
		Chloromonadaceae			94 1 1

Dinoflagellates

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Ceratiaceae			93	2	4		
			Ceratium		93	2	4	1	
				caroliniana	93	2	4	1	1
				hirudinella	93	2	4	1	2
	Dinocapsales				93	3			
		Gloeodiniaceae			93	3	1		
			Urococcus		93	3	1	1	
				insignis	93	3	1	1	1
	Dinococcales				93	4			
		Phytodiniaceae			93	4	1		
			Stylodinium		93	4	1	1	
				globosum	93	4	1	1	1
		Blastodiniaceae			93	4	2		

Chloromonads

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Chloromonadophyceae					94				
	Chloromonadales				94	1			
		Chloromonadaceae			94	1	1		

Cryptomonads

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Cryptophyceae					95				
	Cryptomonadales				95	1			
		Cryptochrysidaceae			95	1	1		
			Rhodomonas		95	1	1	1	
				minuta	95	1	1	1	1
		Cryptomonadaceae			95	1	2		
			Cryptomonas		95	1	2	1	
				erosa	95	1	2	1	1
				marssonii	95	1	2	1	2
				ovata	95	1	2	1	3
		Nephroselmidiaceae			95	1	3		

Cryptomonads

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00	00	00	00	00
		Kathablepharidaceae			95	1	4		
			Kathablepharis		95	1	4	1	
				ovalis	95	1	4	1	1
	Cryptococcales				95	2			
		Cryptococcaceae			95	2	1		

Red Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
Rhodophyceae					96				
	Bangiales				96	1			
		Goniotrichaceae			96	1	1		
		Bangiaceae			96	1	2		
	Nemalionales				96	2			
		Chantransiaceae			96	2	1		

Red Algae

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields				
					00	00	00	00	00
		Batrachospermaceae			96	2	2		
		Thoreaceae			96	2	3		
		Lemaneaceae			96	2	4		

Extraterrestrials

Division or Class	Subdivision, Class or Order	Order, Suborder or Family	Genus	Species	Code Fields 00 00 00 00 00
Extraterrestrials					99

POOR

QUALITY

ORIGINAL